

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041320\
 Data File : VD065617.D
 Acq On : 13 Apr 2020 15:20
 Operator : VA/SY
 Sample : VD0413SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0413SBS01

Manual Integrations
 APPROVED

MMDadoda
 4/14/2020 10:02:34 AM

Quant Time: Apr 14 02:38:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D040920S.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 10 01:39:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	488010	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	691901	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	635423	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	325295	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	205639	44.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.12%	
35) Dibromofluoromethane	7.92	113	217323	44.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.92%	
50) Toluene-d8	10.34	98	813944	46.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.22%	
62) 4-Bromofluorobenzene	12.64	95	264478	46.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.26%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	86666	19.694	ug/l	97
3) Chloromethane	2.21	50	102617	18.752	ug/l	99
4) Vinyl Chloride	2.35	62	98722	19.295	ug/l	97
5) Bromomethane	2.76	94	70526	19.545	ug/l	99
6) Chloroethane	2.92	64	62503	19.837	ug/l	99
7) Trichlorofluoromethane	3.27	101	153446	19.773	ug/l	97
8) Diethyl Ether	3.70	74	29493	18.395	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	4.09	101	102471	20.200	ug/l	99
10) Methyl Iodide	4.30	142	103421	19.839	ug/l	99
11) Tert butyl alcohol	5.25	59	21161	90.820	ug/l #	94
12) 1,1-Dichloroethene	4.06	96	91813	19.623	ug/l	98
13) Acrolein	3.93	56	22452	69.421	ug/l	98
14) Allyl chloride	4.71	41	137855	19.862	ug/l	99
15) Acrylonitrile	5.43	53	91571	96.849	ug/l	100
16) Acetone	4.17	43	80586	96.693	ug/l	95
17) Carbon Disulfide	4.40	76	305549	19.627	ug/l	99
18) Methyl Acetate	4.72	43	48237	19.719	ug/l	98
19) Methyl tert-butyl Ether	5.49	73	179099	19.801	ug/l	98
20) Methylene Chloride	4.96	84	108632	19.718	ug/l	98
21) trans-1,2-Dichloroethene	5.47	96	105811	19.926	ug/l	97
22) Diisopropyl ether	6.37	45	278611	20.884	ug/l	97
23) Vinyl Acetate	6.31	43	711947	100.868	ug/l	100
24) 1,1-Dichloroethane	6.26	63	176175	19.850	ug/l	98
25) 2-Butanone	7.23	43	109197	95.724	ug/l	96
26) 2,2-Dichloropropane	7.21	77	160245	20.175	ug/l	99
27) cis-1,2-Dichloroethene	7.21	96	109198	20.093	ug/l	99
28) Bromochloromethane	7.55	49	70359	19.751	ug/l	100
29) Tetrahydrofuran	7.57	42	69809	97.384	ug/l	97
30) Chloroform	7.71	83	182617	19.650	ug/l	100
31) Cyclohexane	7.99	56	162031	19.680	ug/l	92
32) 1,1,1-Trichloroethane	7.90	97	169200	20.146	ug/l	98
36) 1,1-Dichloropropene	8.11	75	143898	20.201	ug/l	100
37) Ethyl Acetate	7.30	43	54133	20.467	ug/l	98
38) Carbon Tetrachloride	8.10	117	154791	20.012	ug/l	96

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	162974	20.211	ug/l	96
40) Benzene	8.36	78	406996	19.998	ug/l	99
41) Methacrylonitrile	7.53	41	24543	16.400	ug/l #	100
42) 1,2-Dichloroethane	8.43	62	110281	19.399	ug/l	99
43) Isopropyl Acetate	8.46	43	95883	19.870	ug/l	99
44) Trichloroethene	9.11	130	117119	20.022	ug/l	94
45) 1,2-Dichloropropane	9.39	63	98167	19.809	ug/l	100
46) Dibromomethane	9.48	93	52190	19.592	ug/l	98
47) Bromodichloromethane	9.67	83	137832	19.731	ug/l	99
48) Methyl methacrylate	9.46	41	44011	19.665	ug/l	98
49) 1,4-Dioxane	9.47	88	11110	393.809	ug/l	98
51) 4-Methyl-2-Pentanone	10.23	43	254637	102.396	ug/l	99
52) Toluene	10.41	92	262464	20.396	ug/l	99
53) t-1,3-Dichloropropene	10.63	75	123223	19.874	ug/l	96
54) cis-1,3-Dichloropropene	10.10	75	151541	19.962	ug/l	95
55) 1,1,2-Trichloroethane	10.80	97	73029	19.536	ug/l	99
56) Ethyl methacrylate	10.67	69	73559	18.721	ug/l	97
57) 1,3-Dichloropropane	10.95	76	120806	19.511	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.95	63	196831	99.414	ug/l	98
59) 2-Hexanone	10.99	43	165868	100.364	ug/l	98
60) Dibromochloromethane	11.14	129	99539	19.994	ug/l	100
61) 1,2-Dibromoethane	11.25	107	69539	19.570	ug/l	97
64) Tetrachloroethene	10.88	164	104218	20.620	ug/l	94
65) Chlorobenzene	11.67	112	275761	20.039	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.75	131	105135	20.055	ug/l	99
67) Ethyl Benzene	11.75	91	465396	20.480	ug/l	99
68) m/p-Xylenes	11.86	106	370879	41.369	ug/l	98
69) o-Xylene	12.18	106	160889	20.826	ug/l	98
70) Styrene	12.20	104	286809	20.999	ug/l	100
71) Bromoform	12.37	173	56186	19.110	ug/l #	98
73) Isopropylbenzene	12.48	105	445012	21.470	ug/l	98
74) N-amyl acetate	12.30	43	84921	19.944	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.74	83	74909	19.661	ug/l	99
76) 1,2,3-Trichloropropane	12.79	75	50867m	19.497	ug/l	
77) Bromobenzene	12.77	156	116215	20.452	ug/l	99
78) n-propylbenzene	12.83	91	535851	21.422	ug/l	99
79) 2-Chlorotoluene	12.91	91	303841	21.194	ug/l	100
80) 1,3,5-Trimethylbenzene	12.97	105	371252	21.252	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.54	75	23320	20.705	ug/l	96
82) 4-Chlorotoluene	13.01	91	321901	20.861	ug/l	100
83) tert-Butylbenzene	13.23	119	304631	20.855	ug/l	97
84) 1,2,4-Trimethylbenzene	13.28	105	374398	21.567	ug/l	100
85) sec-Butylbenzene	13.41	105	443892	21.356	ug/l	99
86) p-Isopropyltoluene	13.53	119	410909	21.422	ug/l	99
87) 1,3-Dichlorobenzene	13.53	146	222969	20.348	ug/l	100
88) 1,4-Dichlorobenzene	13.60	146	219544	20.060	ug/l	98
89) n-Butylbenzene	13.86	91	366095	21.149	ug/l	99
90) Hexachloroethane	14.12	117	83757	20.017	ug/l	99
91) 1,2-Dichlorobenzene	13.90	146	189868	20.367	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.51	75	11726	19.952	ug/l	100

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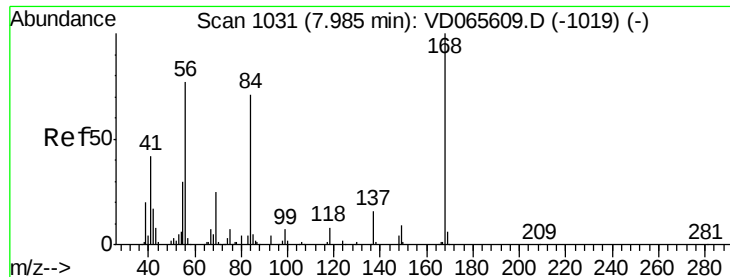
Manual Integrations
APPROVED

MMDadoda
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D040920S.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	126267	20.621	ug/l	99
94) Hexachlorobutadiene	15.28	225	81516	19.152	ug/l	97
95) Naphthalene	15.41	128	166327	18.470	ug/l	99
96) 1,2,3-Trichlorobenzene	15.61	180	111183	20.976	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

Instrument :

MSVOA_D

ClientSampleId :

VD0413SBS01

Tot Ion:168 Resp: 488010

Ion Ratio Lower Upper

168 100

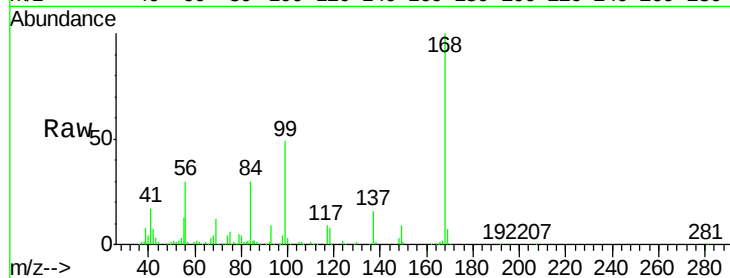
99 48.4 40.2 60.2

Manual Integrations

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4/14/2020 10:02:34 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

250000

200000

150000

100000

50000

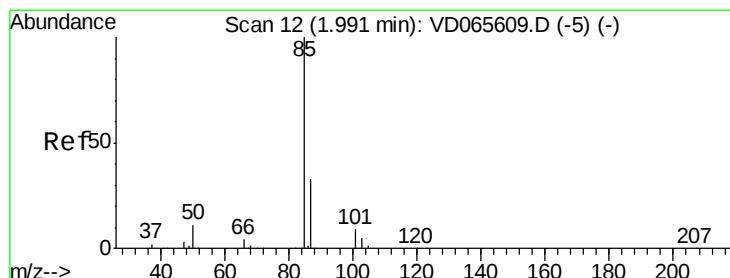
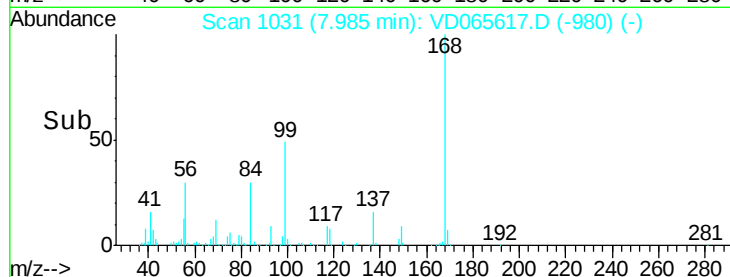
0

7.90

8.00

8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 19.694 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD065617.D

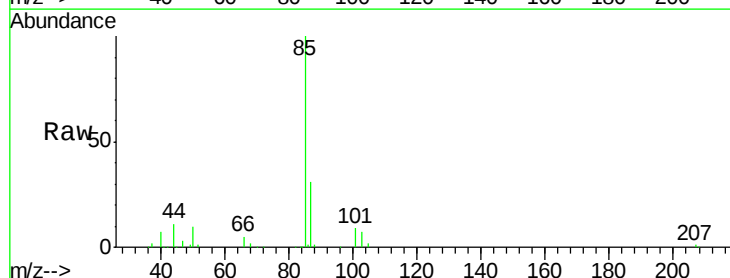
Acq: 13 Apr 2020 15:20

Tgt Ion: 85 Resp: 86666

Ion Ratio Lower Upper

85 100

87 31.2 16.6 49.8



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

60000

40000

20000

0

1.90

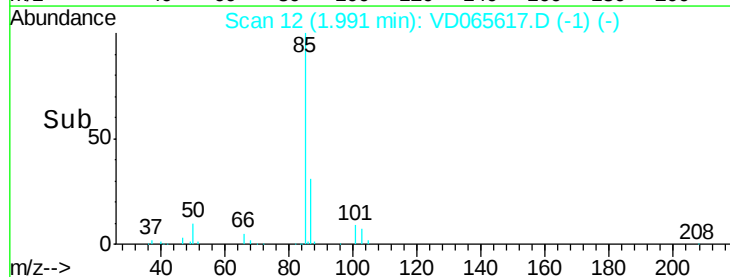
1.95

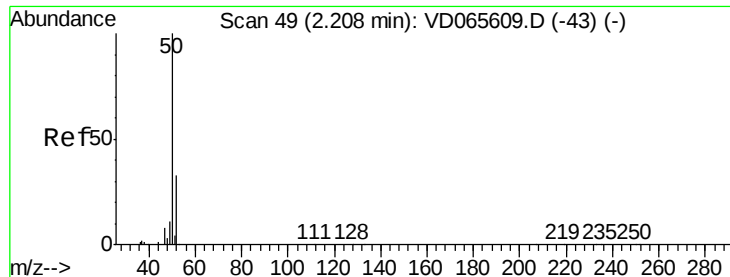
2.00

2.05

2.10

Time-->





#3

Chloromethane

Concen: 18.752 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

Instrument :

MSVOA_D

ClientSampleId :

VD0413BSD01

Tot Ion: 50 Resp: 102617

Ion Ratio Lower Upper

50 100

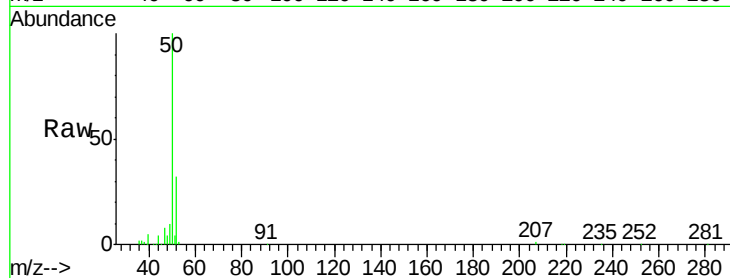
52 32.3 26.2 39.4

Manual Integrations

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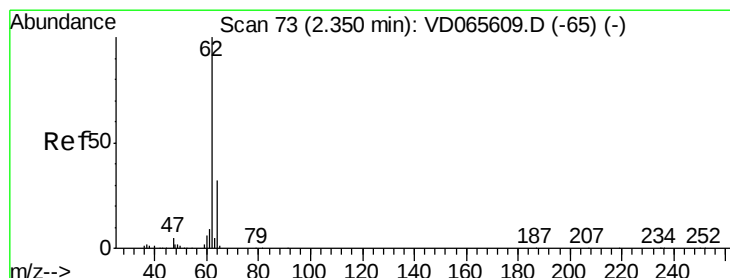
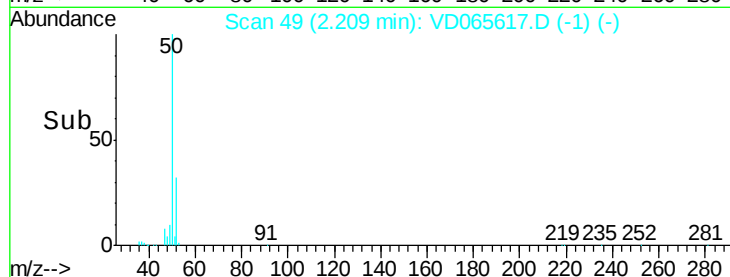
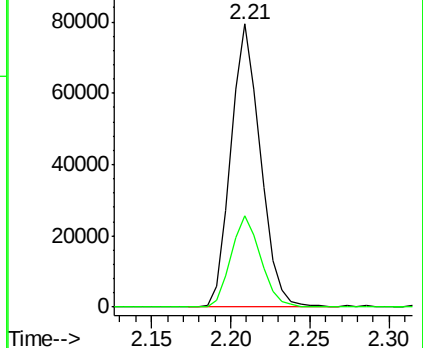
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 19.295 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD065617.D

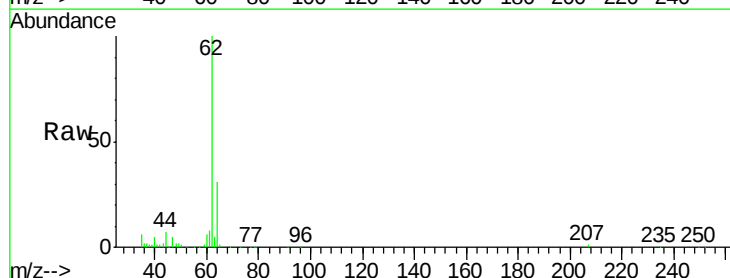
Acq: 13 Apr 2020 15:20

Tgt Ion: 62 Resp: 98722

Ion Ratio Lower Upper

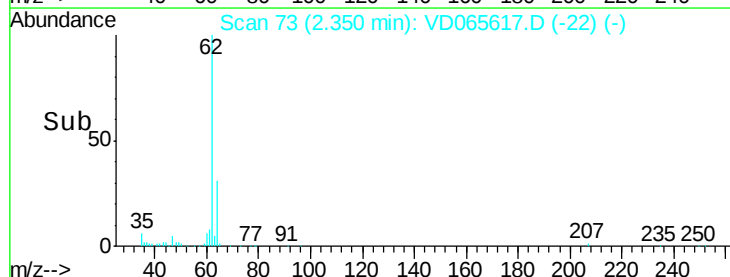
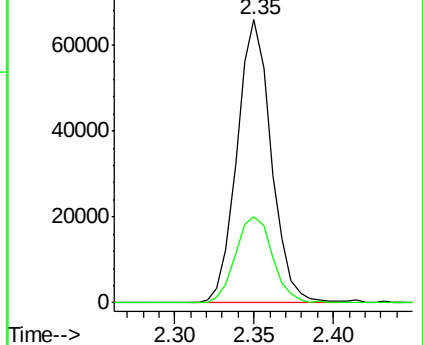
62 100

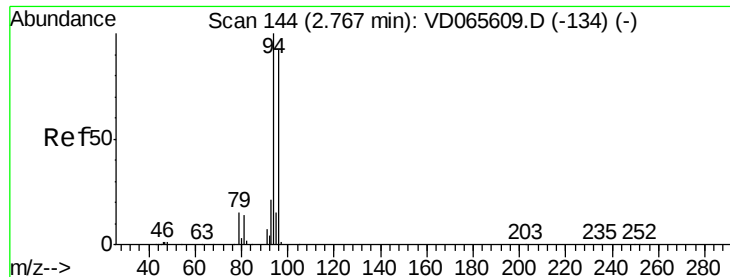
64 30.7 25.8 38.6



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 19.545 ug/l

RT: 2.76 min Scan# 142

Delta R.T. -0.01 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

Instrument :

MSVOA_D

ClientSampleId :

VD0413BSD01

Tot Ion: 94 Resp: 70526

Ion Ratio Lower Upper

94 100

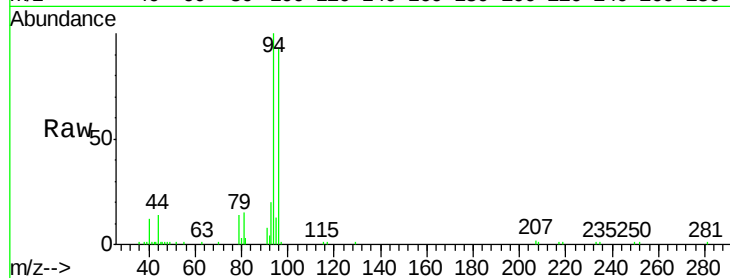
96 92.6 73.3 109.9

Manual Integrations

APPROVED

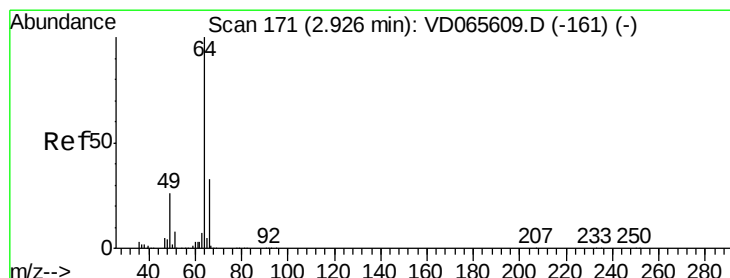
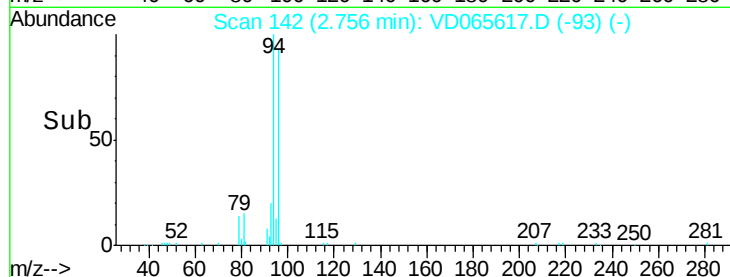
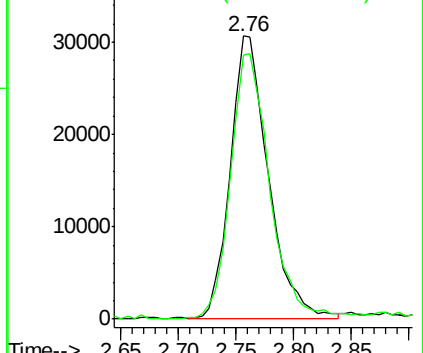
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Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 19.837 ug/l

RT: 2.92 min Scan# 170

Delta R.T. -0.01 min

Lab File: VD065617.D

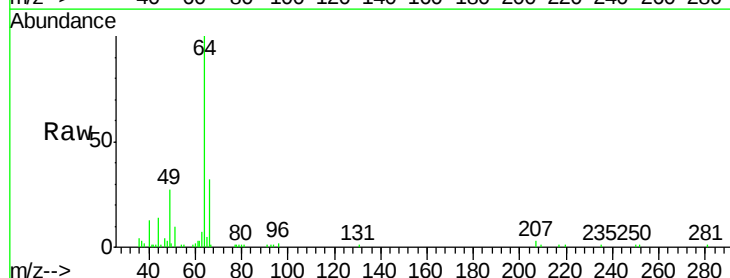
Acq: 13 Apr 2020 15:20

Tgt Ion: 64 Resp: 62503

Ion Ratio Lower Upper

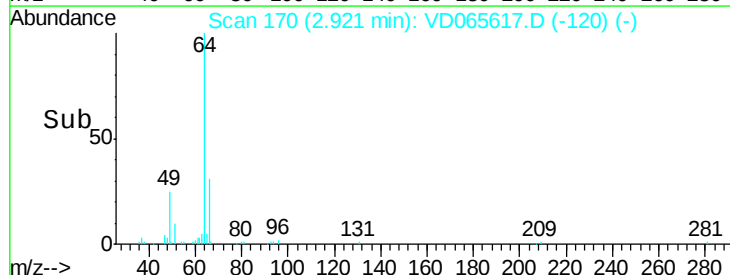
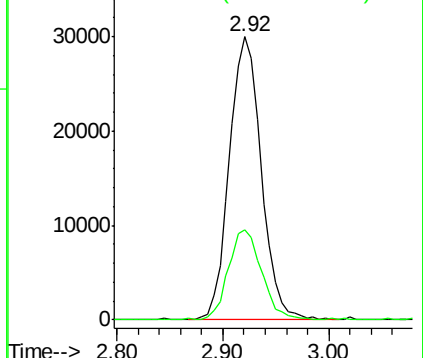
64 100

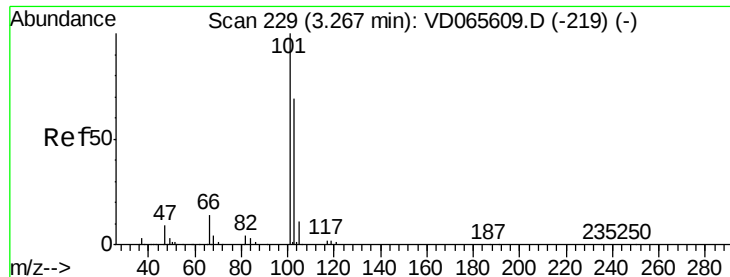
66 32.0 26.1 39.1



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

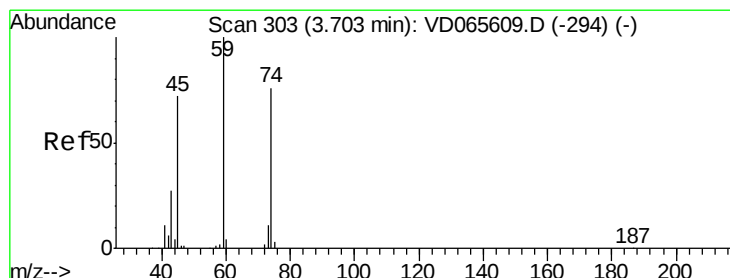
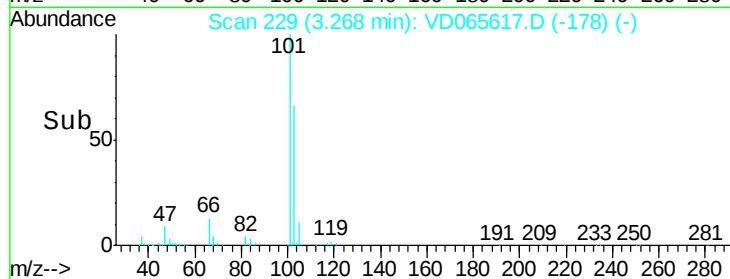
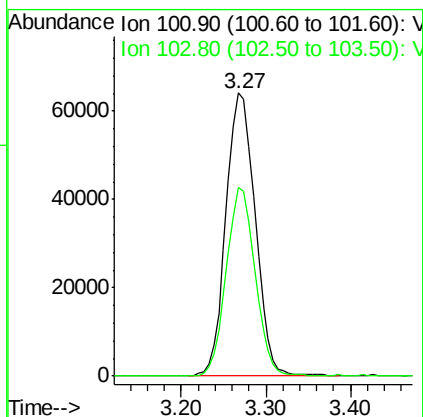
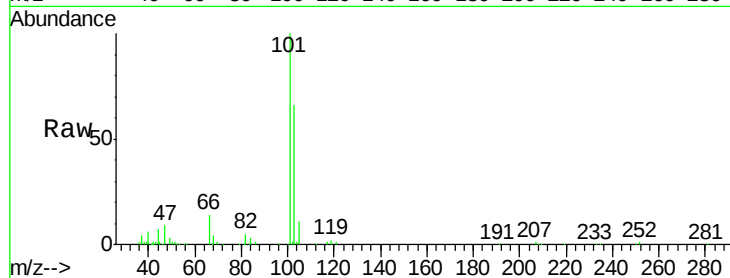
Trichlorofluoromethane
Concen: 19.773 ug/l
RT: 3.27 min Scan# 229
Delta R.T. 0.00 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Instrument :
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VD0413BSD01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	153446		
103	66.5	55.0	82.4	

Manual Integrations
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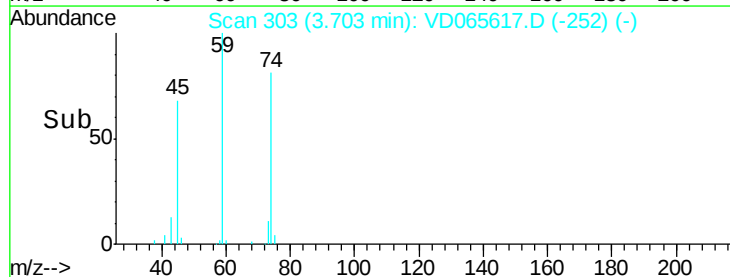
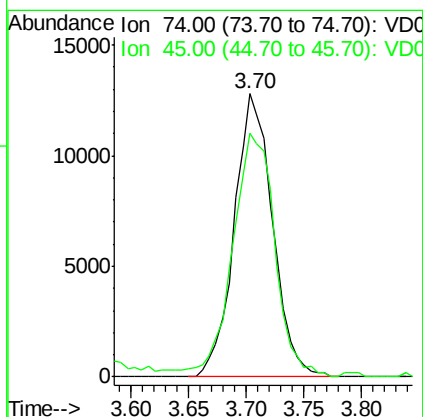
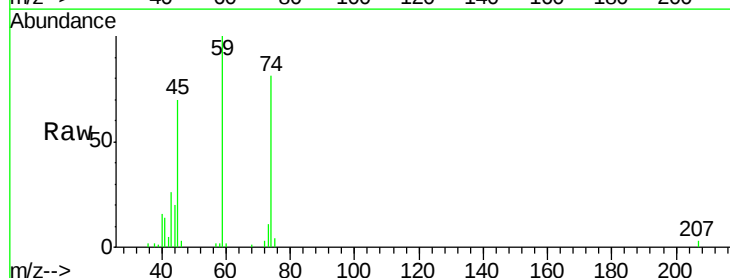
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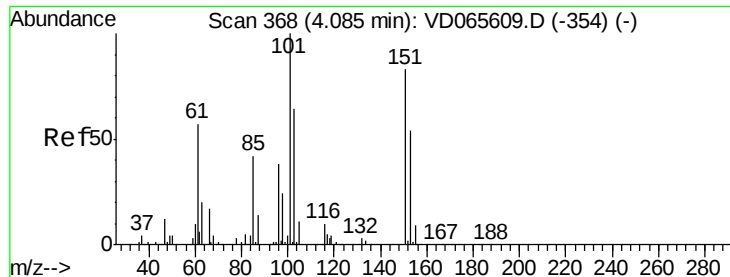


#8

Diethyl Ether
Concen: 18.395 ug/l
RT: 3.70 min Scan# 303
Delta R.T. 0.00 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	29493		
45	95.0	47.8	143.3	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.200 ug/l

RT: 4.09 min Scan# 368

Delta R.T. 0.00 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

Instrument :

MSVOA_D

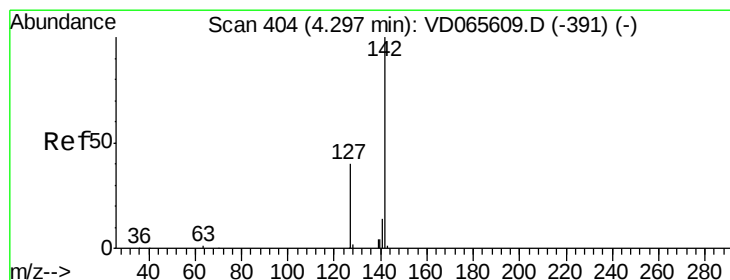
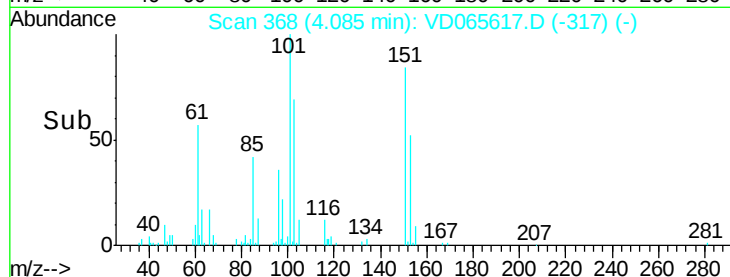
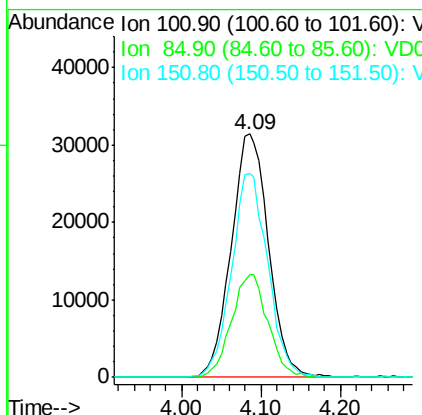
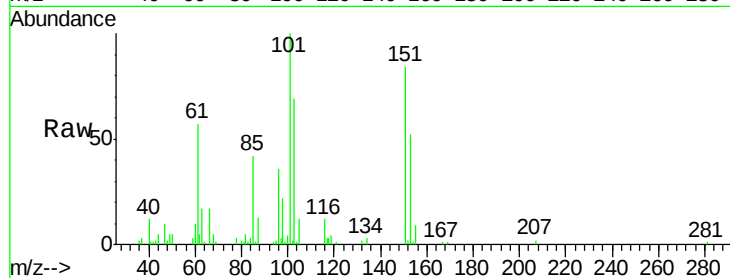
ClientSampleId :

VD0413BSD01

Tot Ion:	101	Resp:	102471
Ion Ratio	Lower	Upper	
101	100		
85	41.2	33.8	50.6
151	81.5	65.0	97.4

Manual Integrations
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MMDadoda
4/14/2020 10:02:34 AM



#10

Methyl Iodide

Concen: 19.839 ug/l

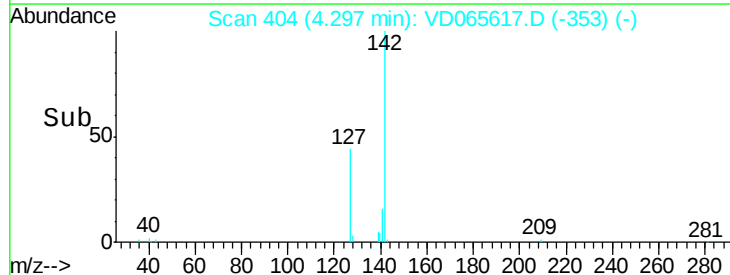
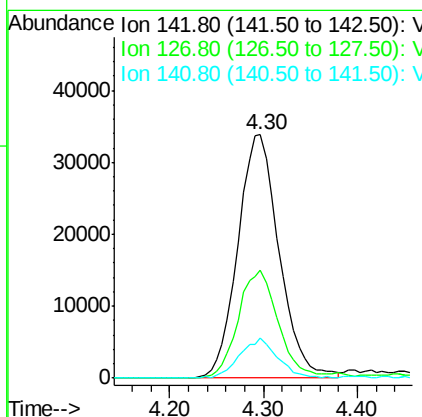
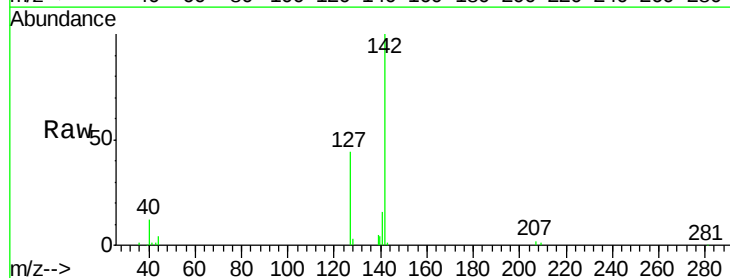
RT: 4.30 min Scan# 404

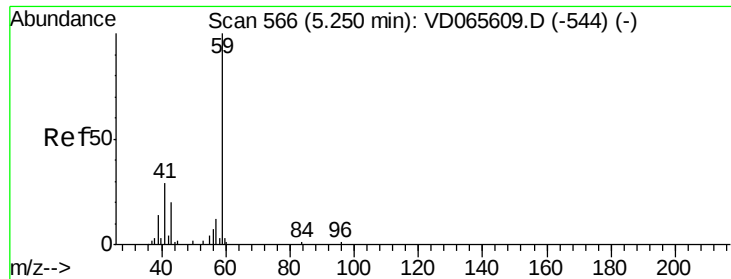
Delta R.T. 0.00 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

Tgt Ion:	142	Resp:	103421
Ion Ratio	Lower	Upper	
142	100		
127	42.5	34.6	51.8
141	15.1	11.7	17.5





#11

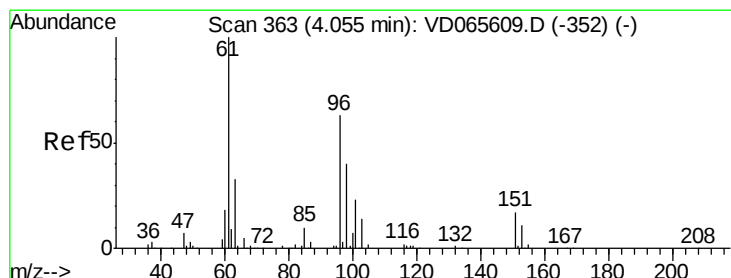
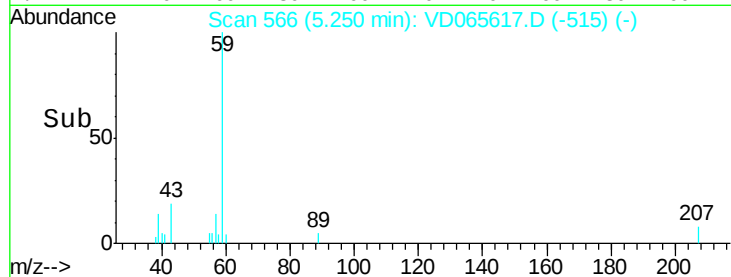
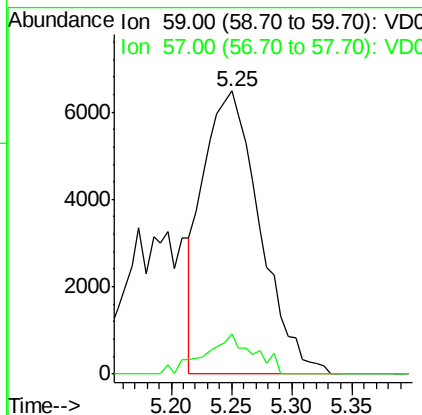
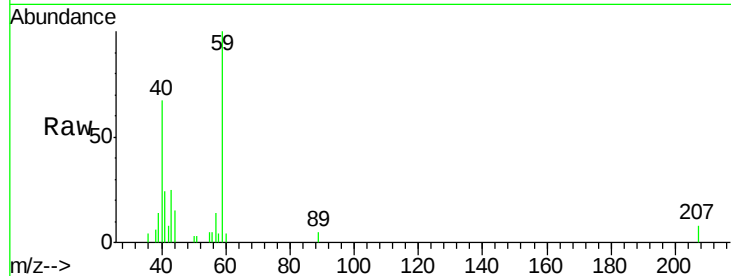
Tert butyl alcohol
Concen: 90.820 ug/l
RT: 5.25 min Scan# 566
Delta R.T. 0.00 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Instrument :
MSVOA_D
ClientSampleId :
VD0413SBS01

Tot Ion: 59 Resp: 21161
Ion Ratio Lower Upper
59 100
57 12.2 8.1 12.1#

Manual Integrations
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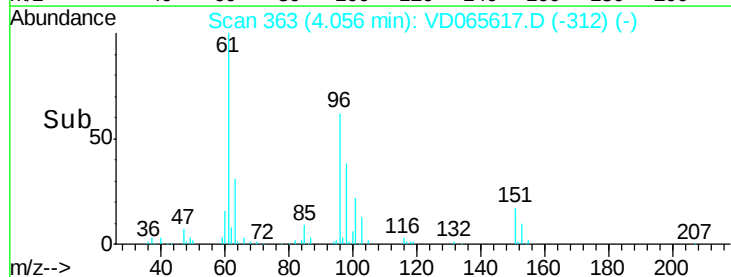
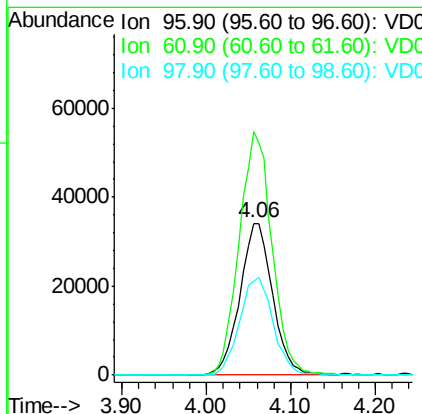
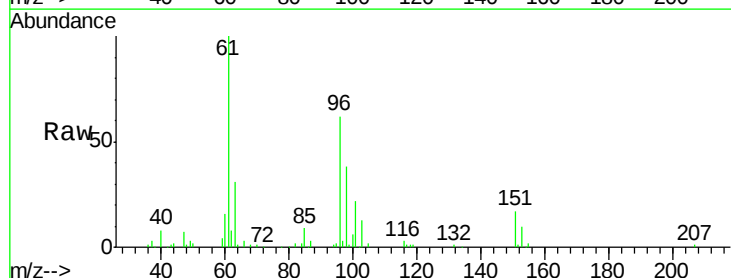
MMDadoda
4/14/2020 10:02:34 AM

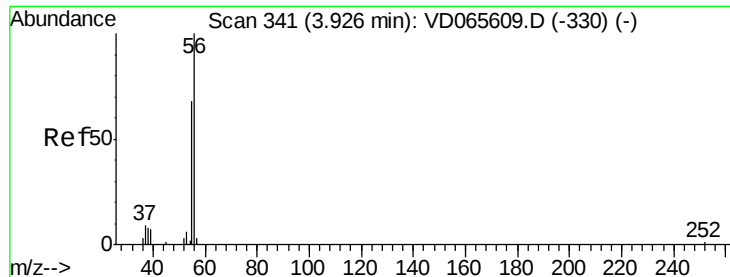


#12

1,1-Dichloroethene
Concen: 19.623 ug/l
RT: 4.06 min Scan# 363
Delta R.T. 0.00 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Tgt Ion: 96 Resp: 91813
Ion Ratio Lower Upper
96 100
61 160.7 126.6 190.0
98 61.7 50.2 75.4





#13

Acrolein

Concen: 69.421 ug/l

RT: 3.93 min Scan# 341

Delta R.T. 0.00 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

Instrument :

MSVOA_D

ClientSampleId :

VD0413BSD01

Tot Ion: 56 Resp: 22452

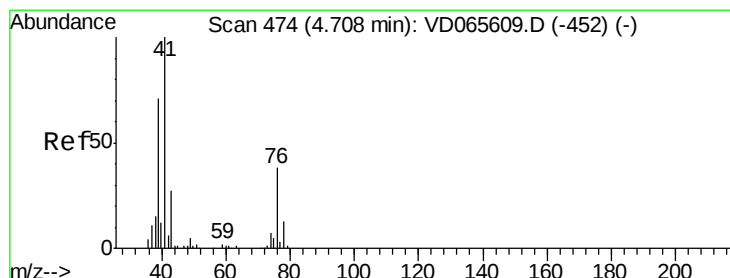
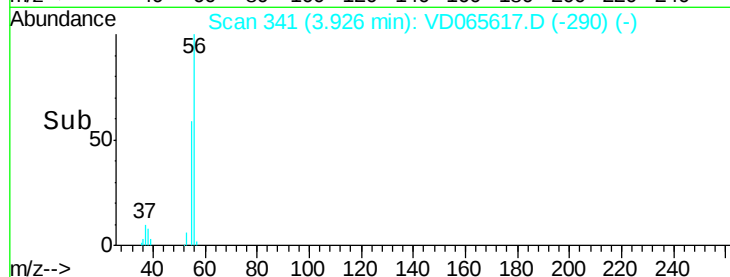
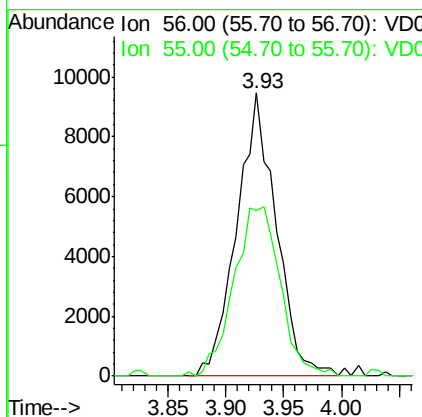
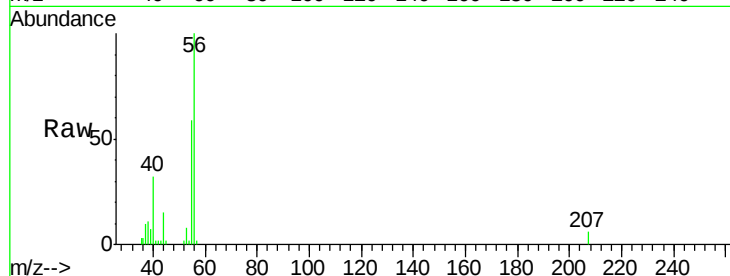
Ion Ratio Lower Upper

56 100

55 70.9 57.9 86.9

Manual Integrations
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MMDadoda
4/14/2020 10:02:34 AM



#14

Allyl chloride

Concen: 19.862 ug/l

RT: 4.71 min Scan# 474

Delta R.T. 0.00 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

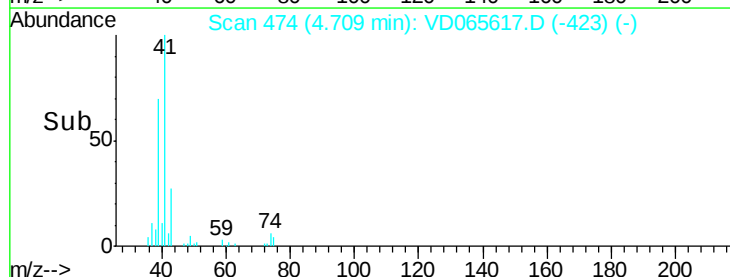
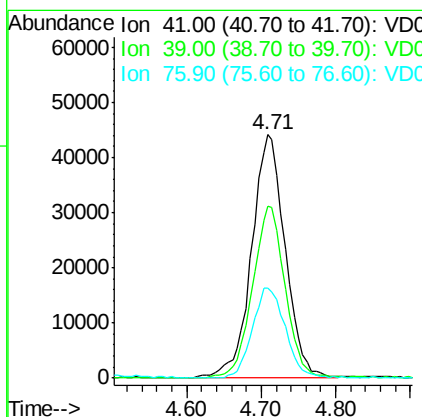
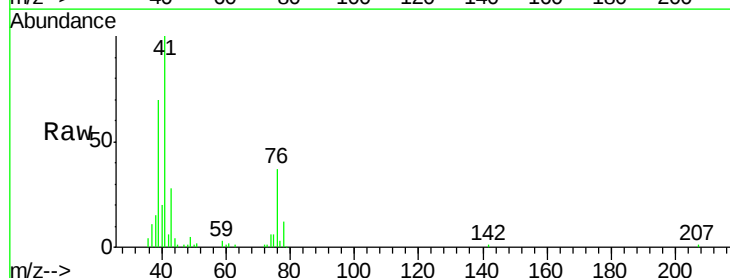
Tgt Ion: 41 Resp: 137855

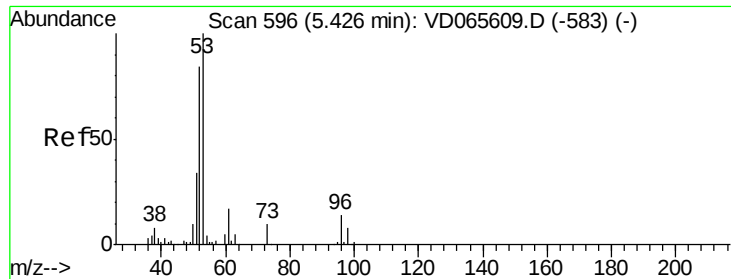
Ion Ratio Lower Upper

41 100

39 68.8 54.2 81.2

76 36.2 29.7 44.5





#15

Acrylonitrile

Concen: 96.849 ug/l

RT: 5.43 min Scan# 597

Delta R.T. 0.01 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

Instrument :

MSVOA_D

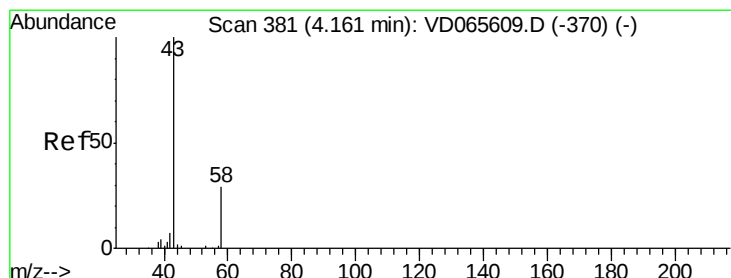
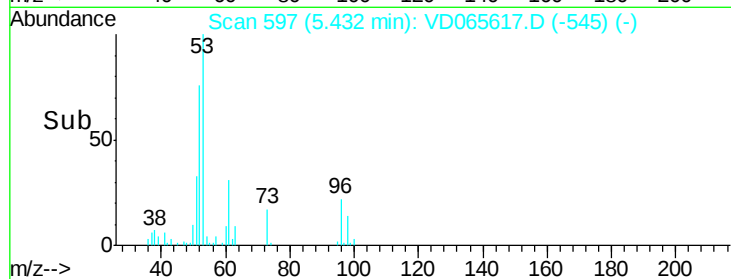
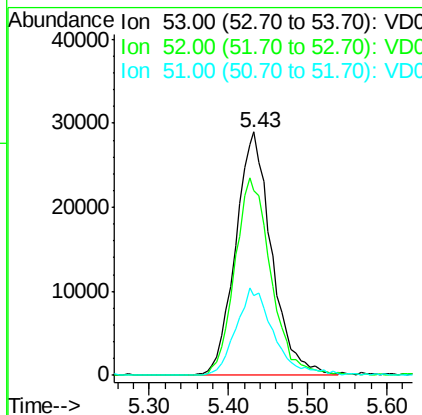
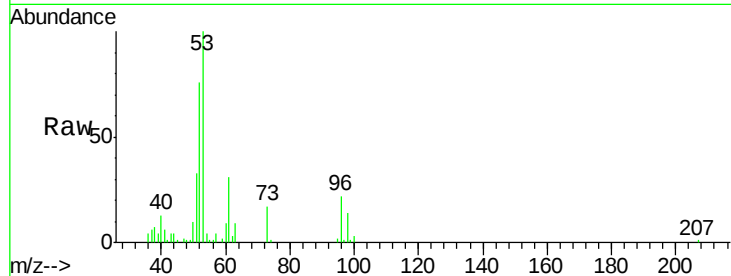
ClientSampleId :

VD0413BSD01

Tot Ion:	53	Resp:	91571
Ion Ratio	Lower	Upper	
53	100		
52	81.2	65.3	97.9
51	37.2	29.5	44.3

Manual Integrations
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#16

Acetone

Concen: 96.693 ug/l

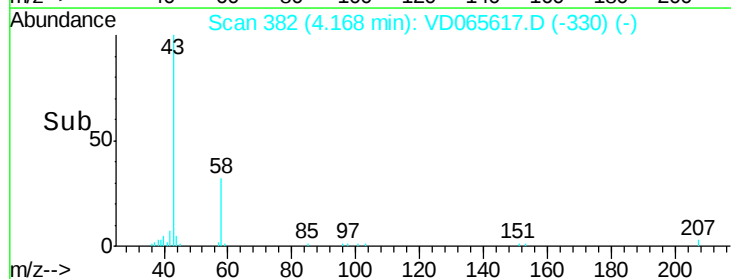
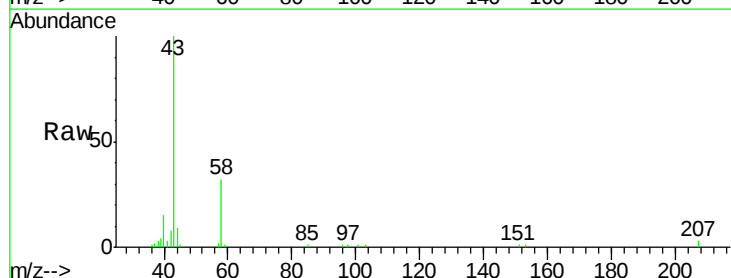
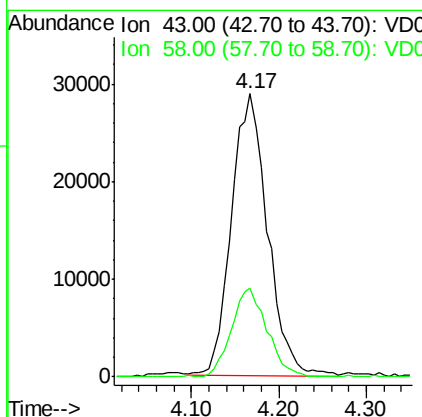
RT: 4.17 min Scan# 382

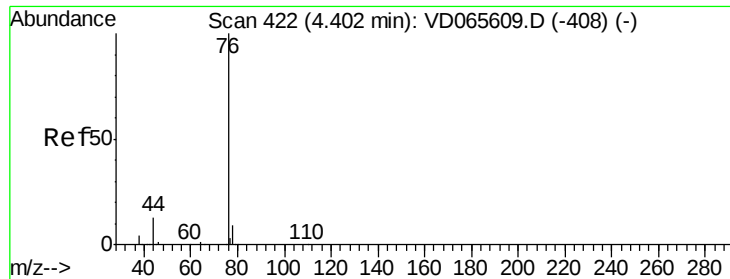
Delta R.T. 0.01 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

Tgt Ion:	43	Resp:	80586
Ion Ratio	Lower	Upper	
43	100		
58	31.7	23.2	34.8





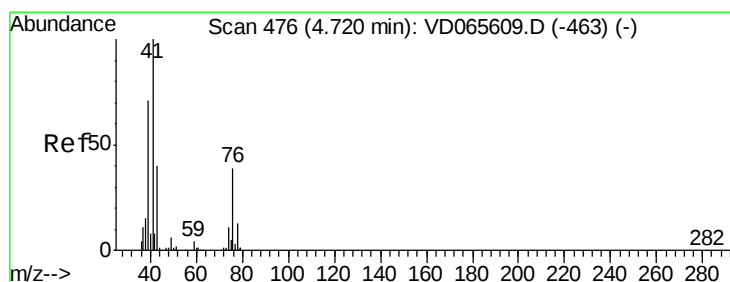
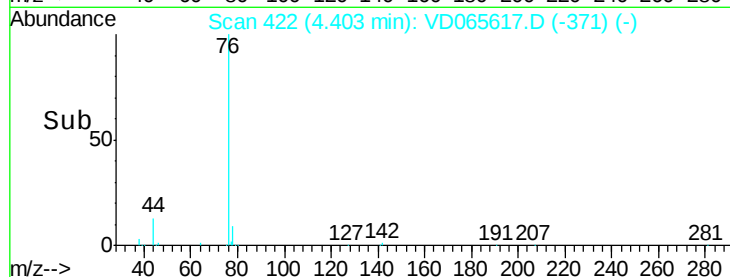
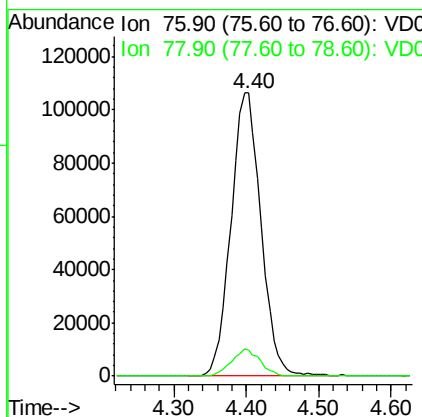
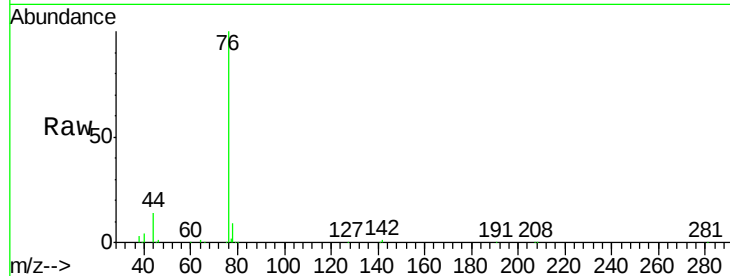
#17
Carbon Disulfide
Concen: 19.627 ug/l
RT: 4.40 min Scan# 422
Delta R.T. 0.00 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Instrument :
MSVOA_D
ClientSampleId :
VD0413BSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.3	10.9

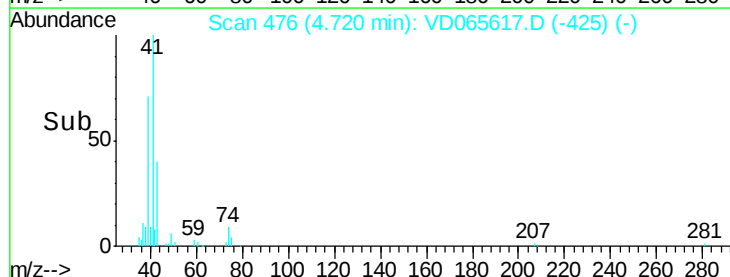
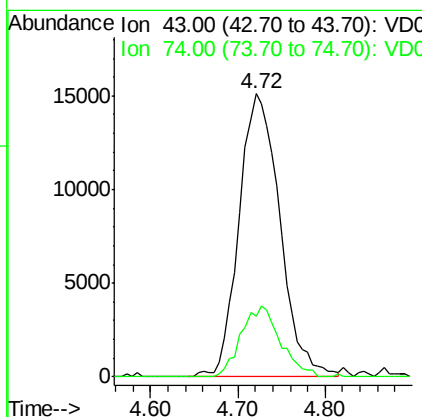
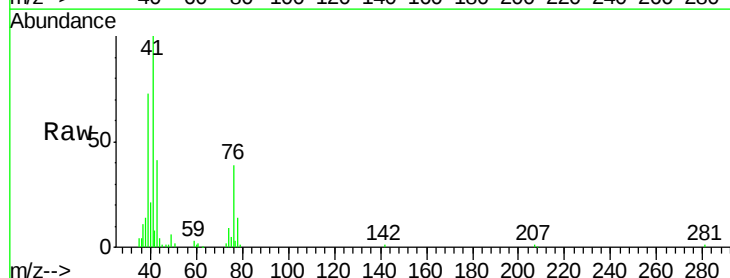
Manual Integrations
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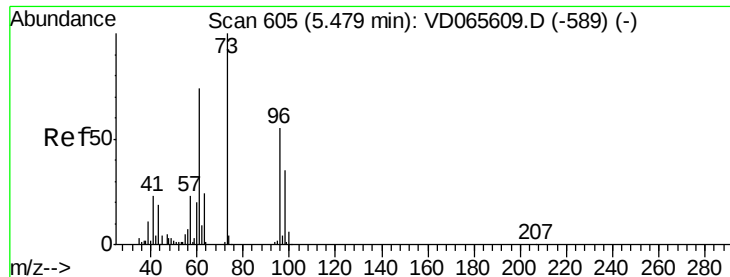
MMDadoda
4/14/2020 10:02:34 AM



#18
Methyl Acetate
Concen: 19.719 ug/l
RT: 4.72 min Scan# 476
Delta R.T. 0.00 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.0	20.2	30.2





#19

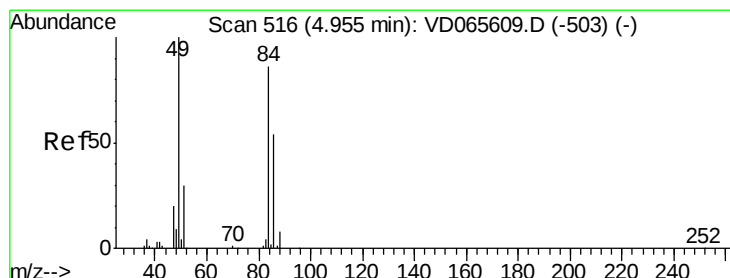
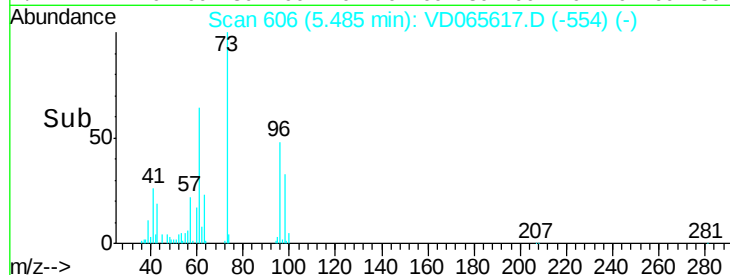
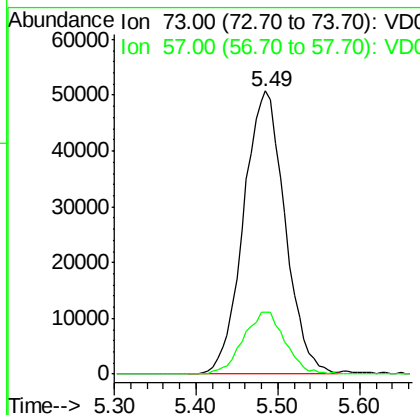
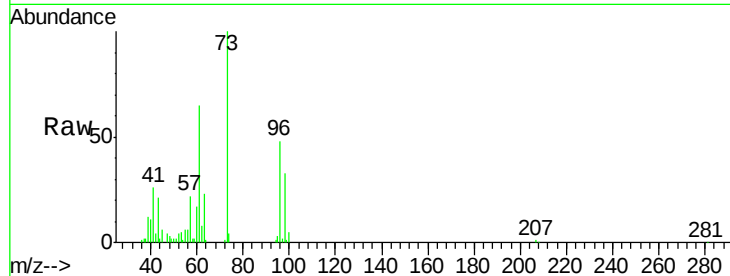
Methyl tert-butyl Ether
 Concen: 19.801 ug/l
 RT: 5.49 min Scan# 606
 Delta R.T. 0.01 min
 Lab File: VD065617.D
 Acq: 13 Apr 2020 15:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0413BSD01

Tot Ion	Ratio	Lower	Upper
73	100		
57	21.7	18.2	27.2

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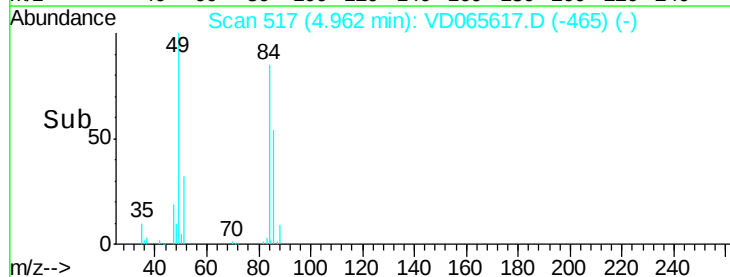
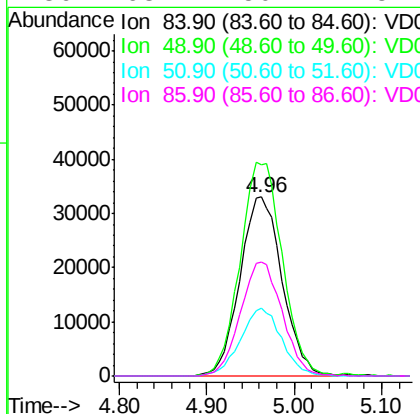
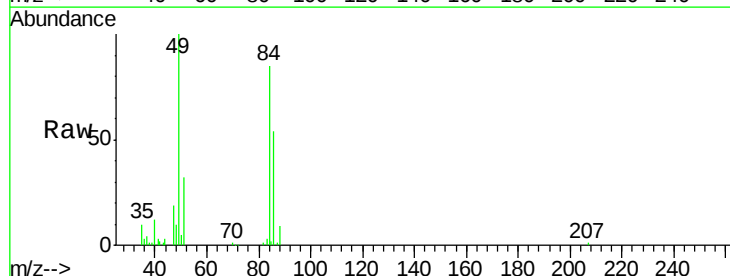
MMDadoda
 4/14/2020 10:02:34 AM

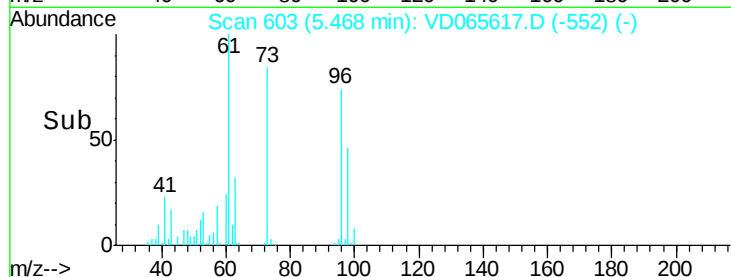
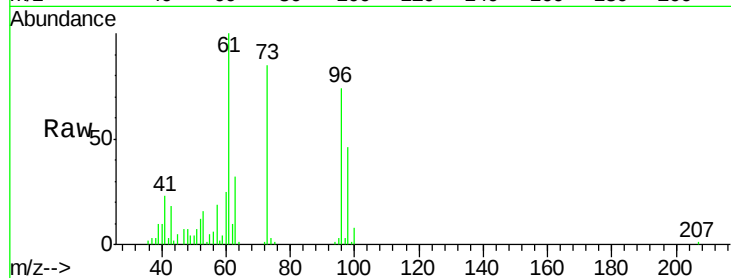
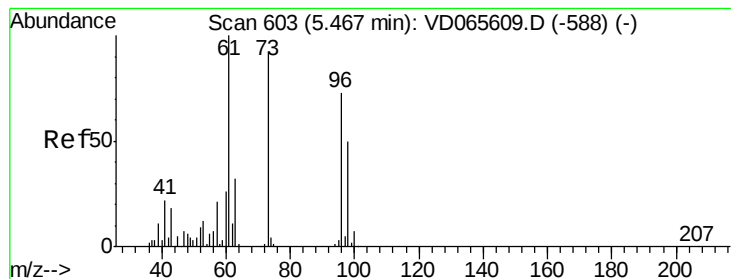


#20

Methylene Chloride
 Concen: 19.718 ug/l
 RT: 4.96 min Scan# 517
 Delta R.T. 0.01 min
 Lab File: VD065617.D
 Acq: 13 Apr 2020 15:20

Tgt Ion	Ratio	Lower	Upper
84	100		
49	118.2	93.4	140.2
51	38.0	28.5	42.7
86	63.4	50.2	75.4





#21

trans-1,2-Dichloroethene

Concen: 19.926 ug/l

RT: 5.47 min Scan# 603

Delta R.T. 0.00 min

Lab File: VD065617.D

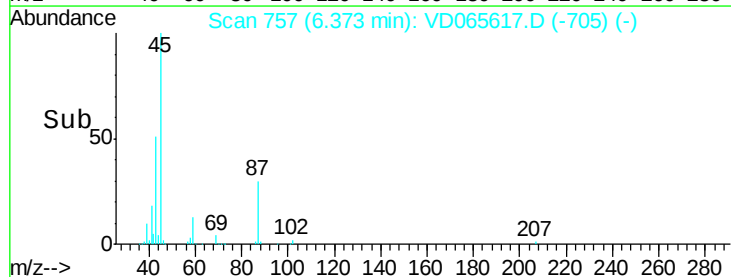
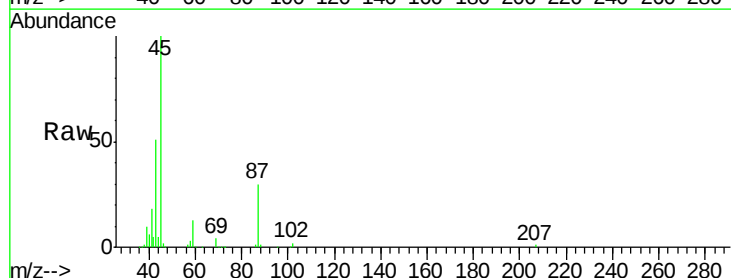
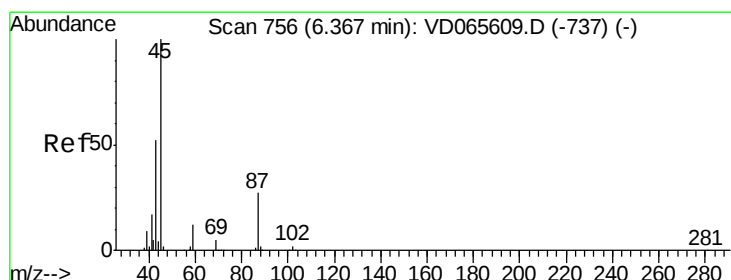
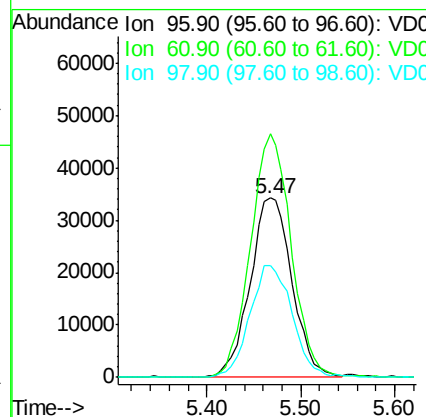
Acq: 13 Apr 2020 15:20

Tot Ion:	96	Resp:	105811
Ion Ratio	Lower	Upper	
96	100		
61	135.8	109.8	164.6
98	62.4	54.8	82.2

Instrument :
MSVOA_D
ClientSampleId :
VD0413BSD01

Manual Integrations
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MMDadoda
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#22

Diisopropyl ether

Concen: 20.884 ug/l

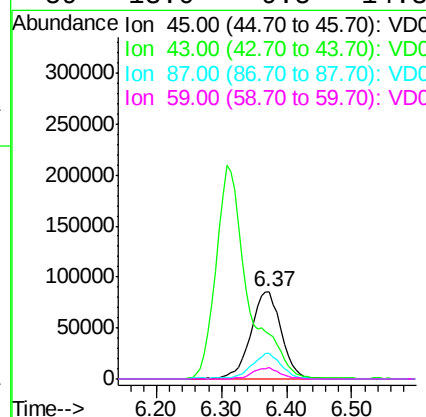
RT: 6.37 min Scan# 757

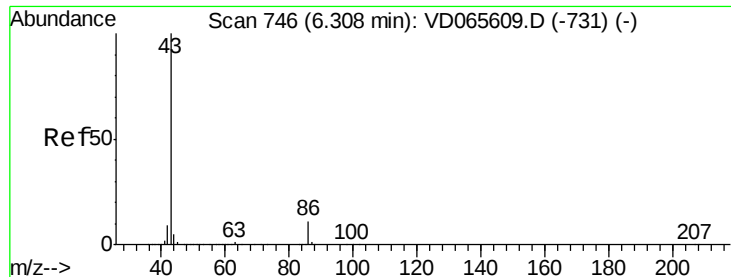
Delta R.T. 0.01 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

Tgt Ion:	45	Resp:	278611
Ion Ratio	Lower	Upper	
45	100		
43	50.5	42.5	63.7
87	29.6	22.3	33.5
59	13.0	9.5	14.3





#23

Vinyl Acetate

Concen: 100.868 ug/l

RT: 6.31 min Scan# 746

Delta R.T. 0.00 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

Instrument :

MSVOA_D

ClientSampleId :

VD0413BSD01

Tot Ion: 43 Resp: 711947

Ion Ratio Lower Upper

43 100

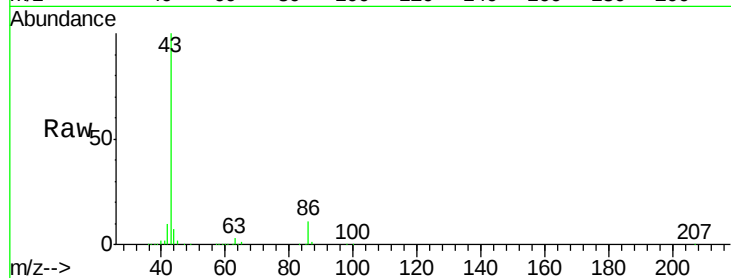
86 11.2 9.1 13.7

Manual Integrations

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MMDadoda

4/14/2020 10:02:34 AM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

250000

200000

150000

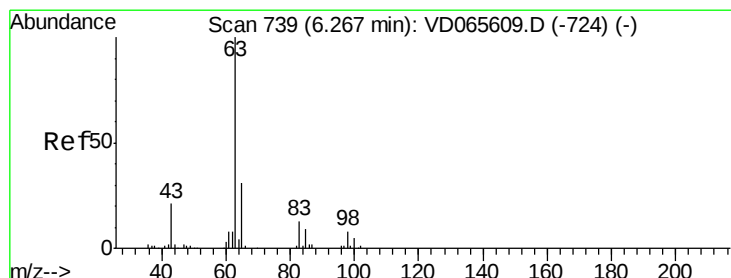
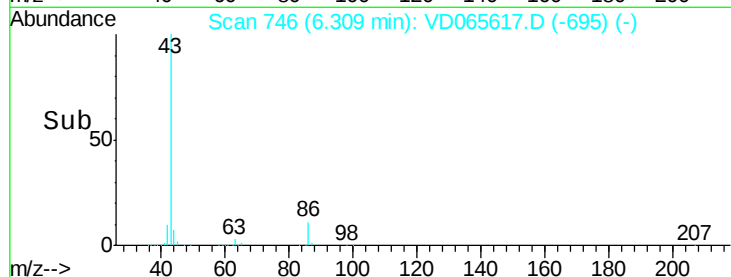
100000

50000

0

6.20 6.30 6.40 6.50

Time-->



#24

1,1-Dichloroethane

Concen: 19.850 ug/l

RT: 6.26 min Scan# 738

Delta R.T. -0.01 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

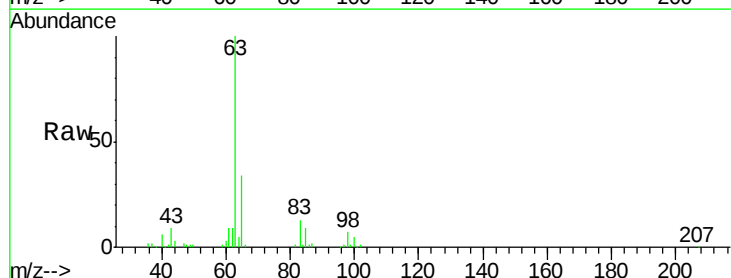
Tgt Ion: 63 Resp: 176175

Ion Ratio Lower Upper

63 100

98 7.0 4.0 11.9

100 5.4 2.6 7.8



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC

60000

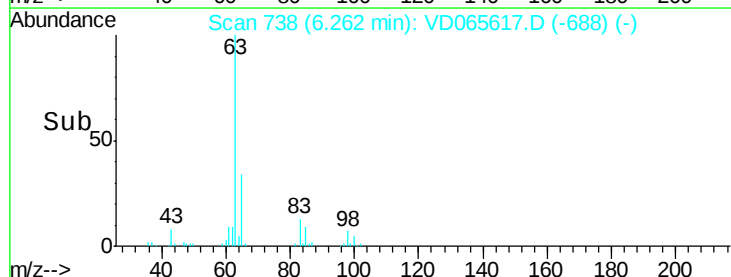
40000

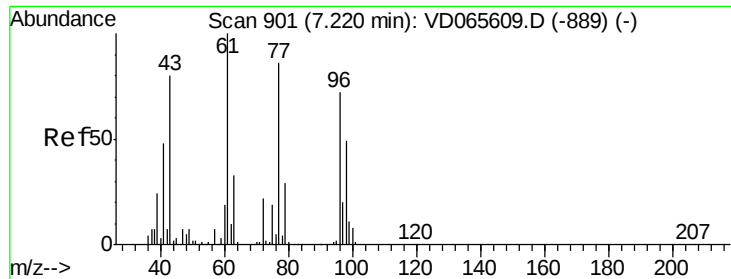
20000

0

6.10 6.20 6.30 6.40

Time-->





#25

2-Butanone

Concen: 95.724 ug/l

RT: 7.23 min Scan# 902

Delta R.T. 0.01 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

Instrument :

MSVOA_D

ClientSampleId :

VD0413BSD01

Tot Ion: 43 Resp: 109197

Ion Ratio Lower Upper

43 100

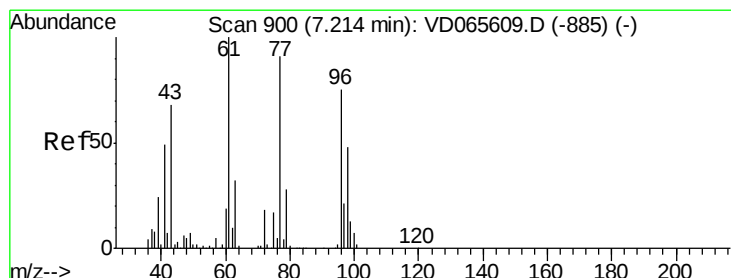
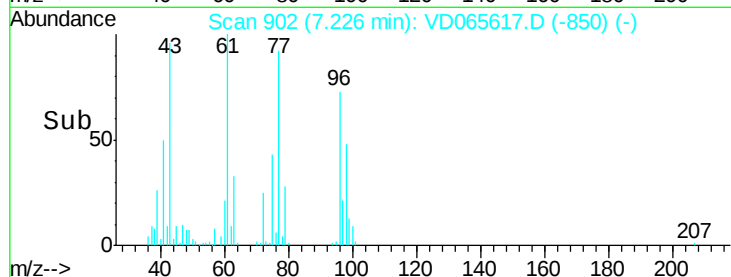
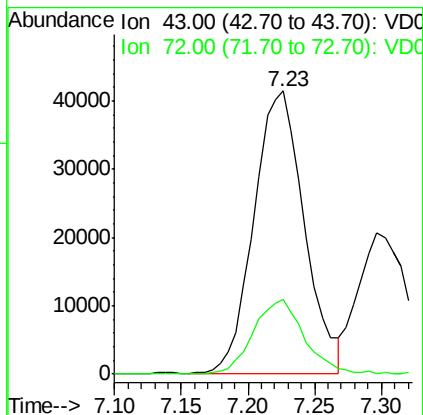
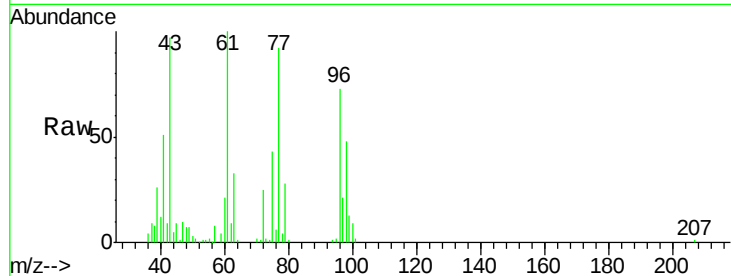
72 26.2 22.5 33.7

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#26

2,2-Dichloropropane

Concen: 20.175 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD065617.D

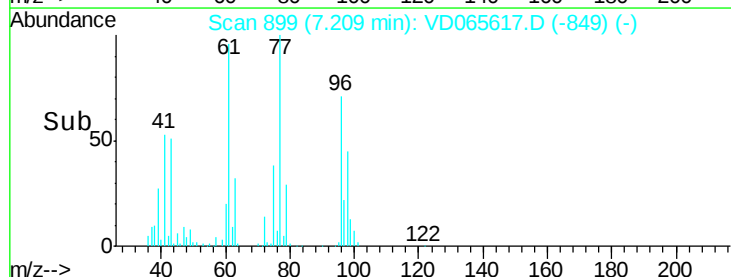
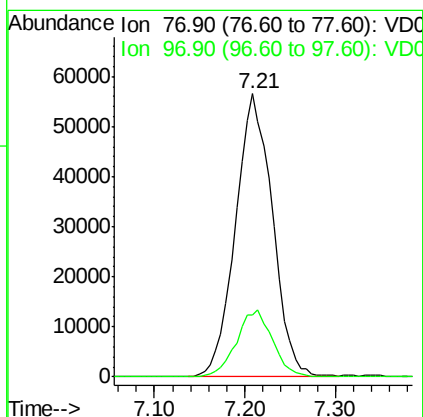
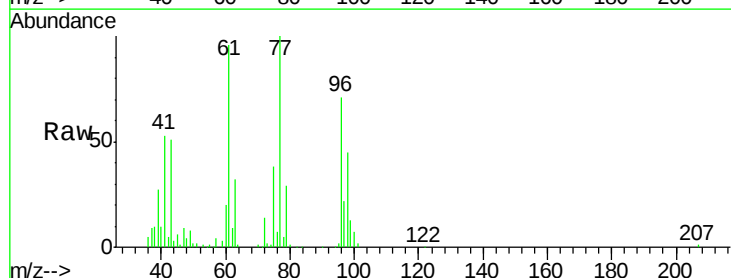
Acq: 13 Apr 2020 15:20

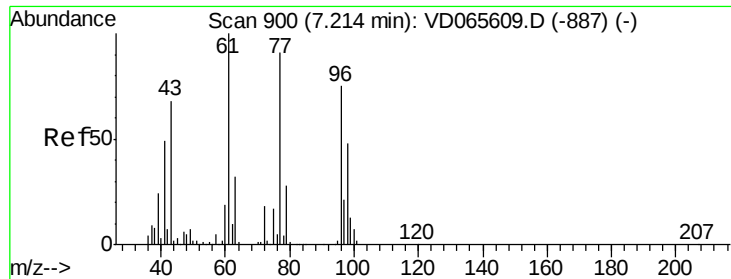
Tgt Ion: 77 Resp: 160245

Ion Ratio Lower Upper

77 100

97 22.9 11.7 35.1





#27

cis-1,2-Dichloroethene

Concen: 20.093 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.00 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

Instrument :

MSVOA_D

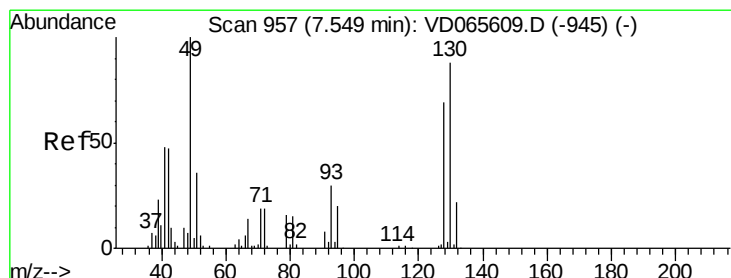
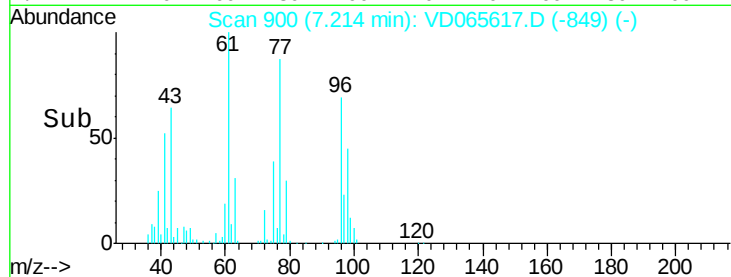
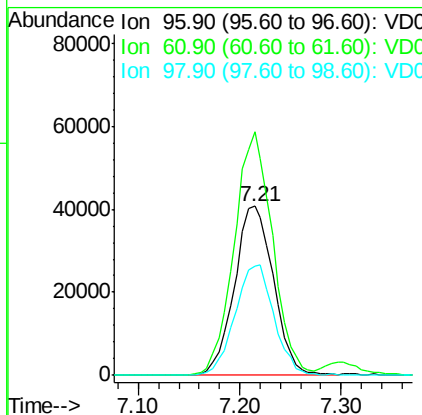
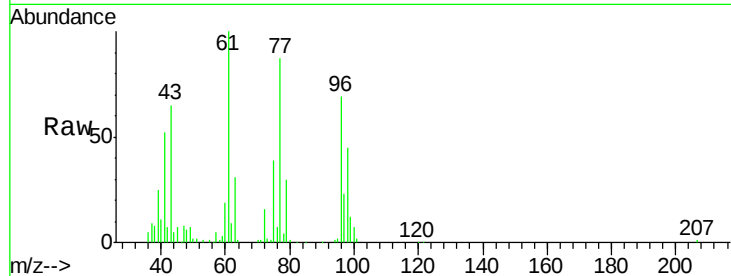
ClientSampleId :

VD0413BSD01

Tot Ion:	96	Resp:	109198
Ion	Ratio	Lower	Upper
96	100		
61	140.7	0.0	279.0
98	64.4	0.0	130.2

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#28

Bromochloromethane

Concen: 19.751 ug/l

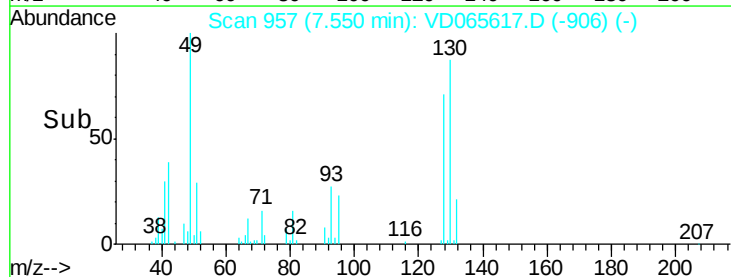
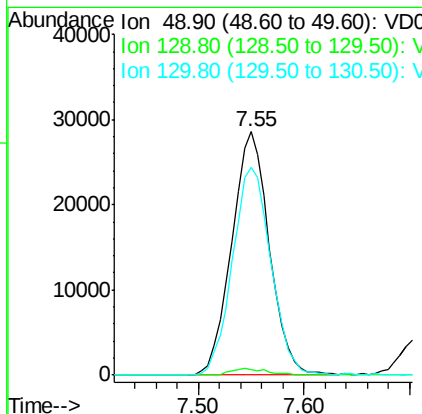
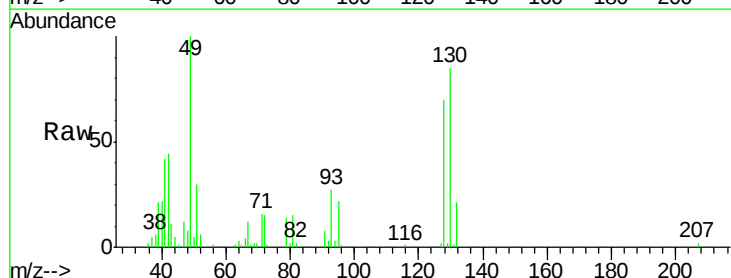
RT: 7.55 min Scan# 957

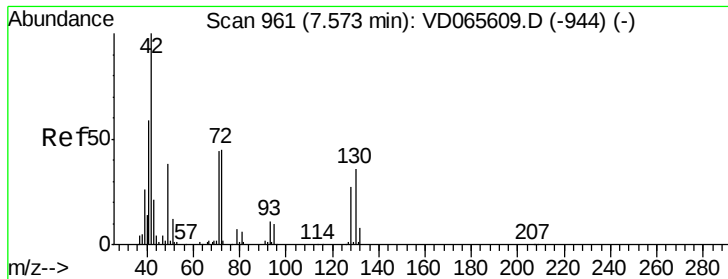
Delta R.T. 0.00 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

Tgt Ion:	49	Resp:	70359
Ion	Ratio	Lower	Upper
49	100		
129	2.5	0.0	4.8
130	87.2	69.4	104.2





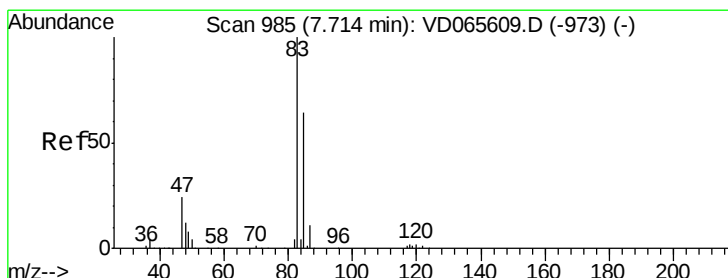
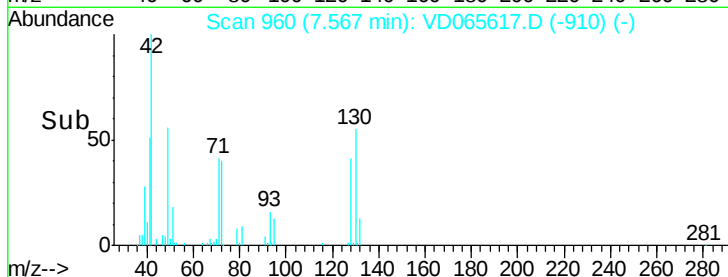
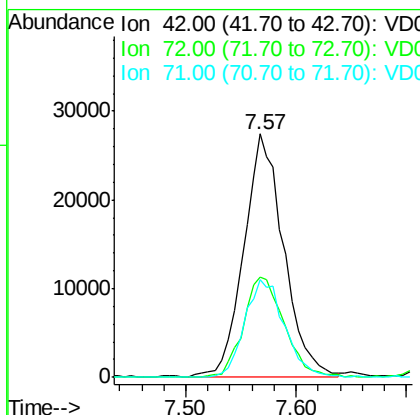
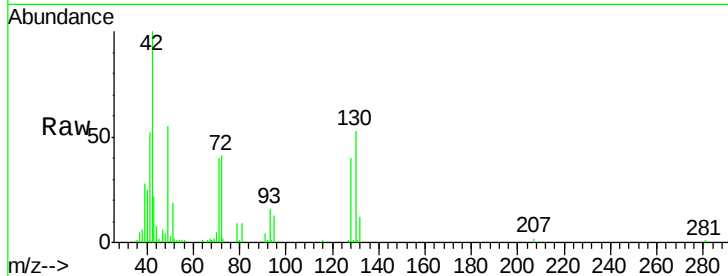
#29
Tetrahydrofuran
Concen: 97.384 ug/l
RT: 7.57 min Scan# 960
Delta R.T. -0.01 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Instrument :
MSVOA_D
ClientSampleId :
VD0413SBS01

Tot Ion:	42	Resp:	69809
Ion	Ratio	Lower	Upper
42	100		
72	42.2	35.3	52.9
71	39.8	33.1	49.7

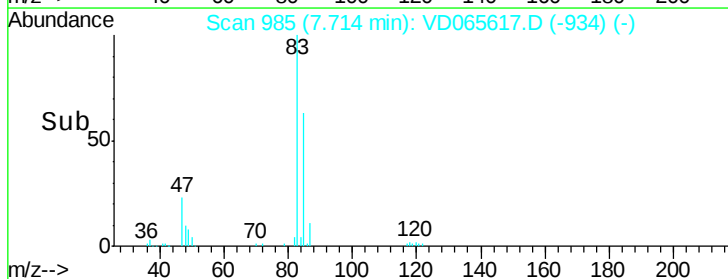
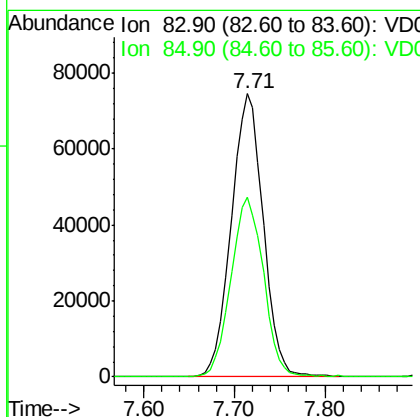
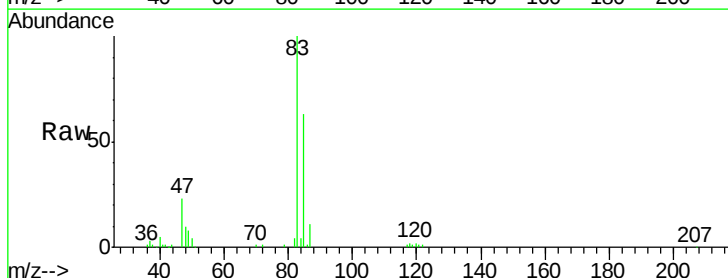
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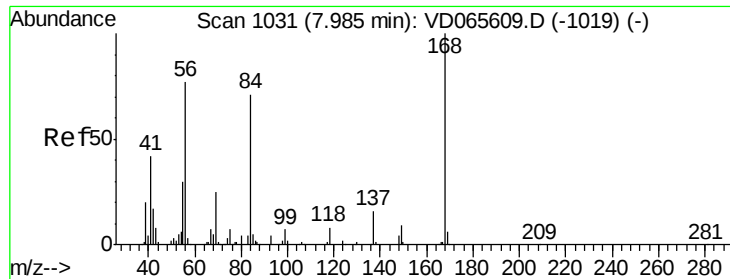
MMDadoda
4/14/2020 10:02:34 AM



#30
Chloroform
Concen: 19.650 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Tgt Ion:	83	Resp:	182617
Ion	Ratio	Lower	Upper
83	100		
85	63.5	50.9	76.3





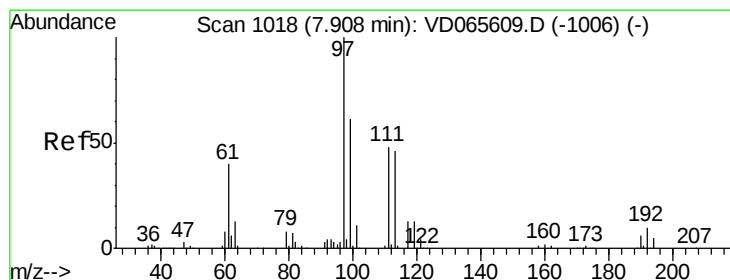
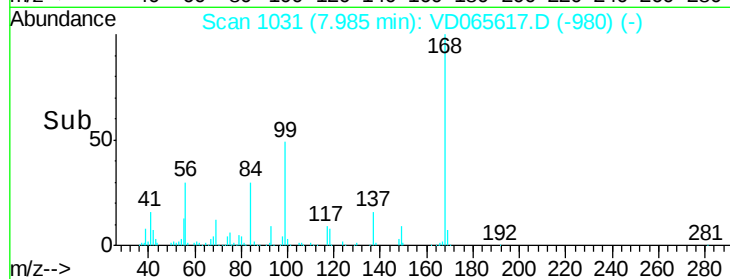
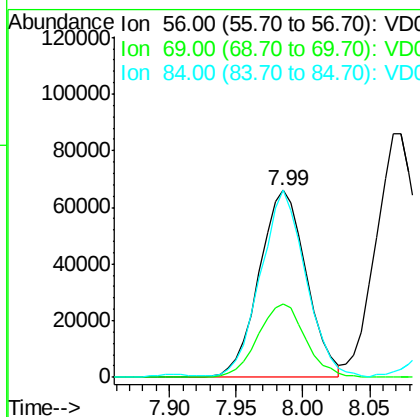
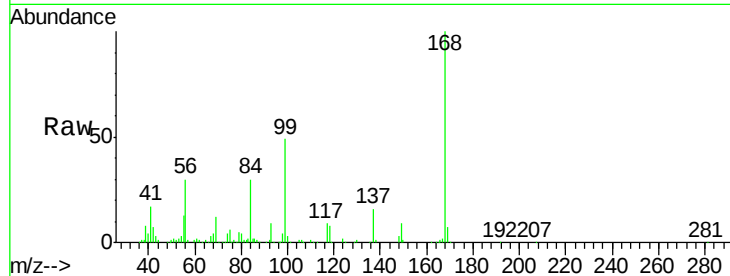
#31
Cvclohexane
Concen: 19.680 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Instrument :
MSVOA_D
ClientSampleId :
VD0413BSD01

Tot Ion	Ratio	Lower	Upper
56	100		
69	39.2	26.2	39.4
84	98.9	73.7	110.5

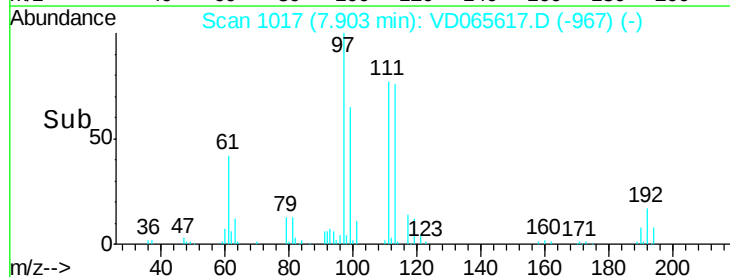
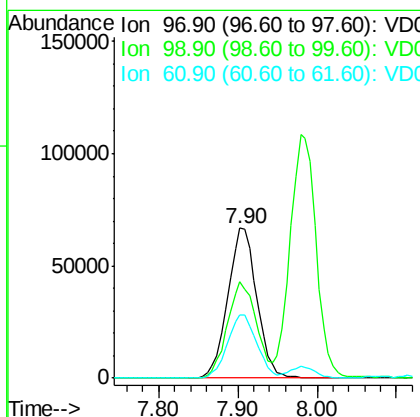
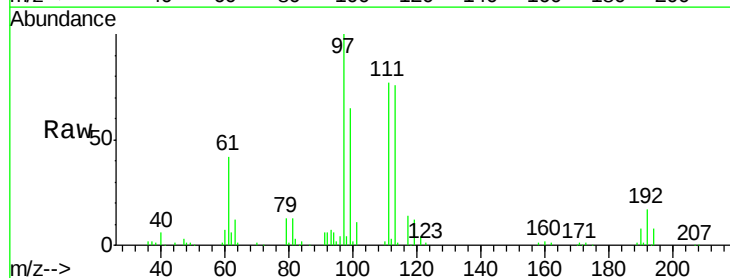
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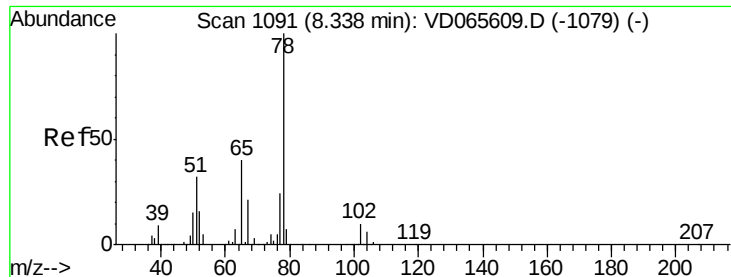
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#32
1,1,1-Trichloroethane
Concen: 20.146 ug/l
RT: 7.90 min Scan# 1017
Delta R.T. -0.01 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.3	50.2	75.2
61	42.3	33.5	50.3





#33

1,2-Dichloroethane-d4

Concen: 44.555 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

Instrument :

MSVOA_D

ClientSampleId :

VD0413BSD01

Tot Ion: 65 Resp: 205639

Ion Ratio Lower Upper

65 100

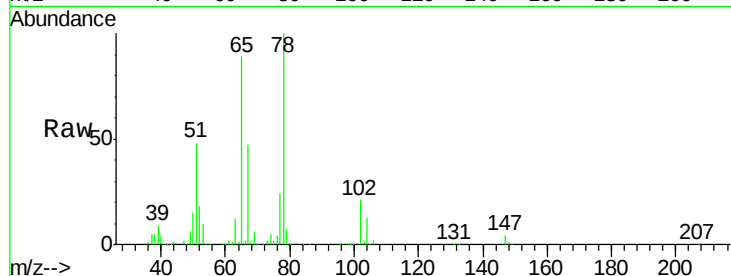
67 52.7 0.0 107.6

Manual Integrations

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Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.34

100000

80000

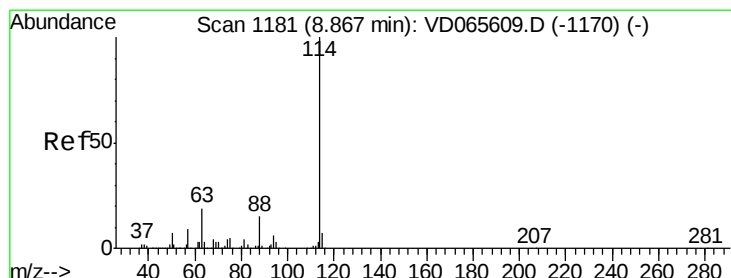
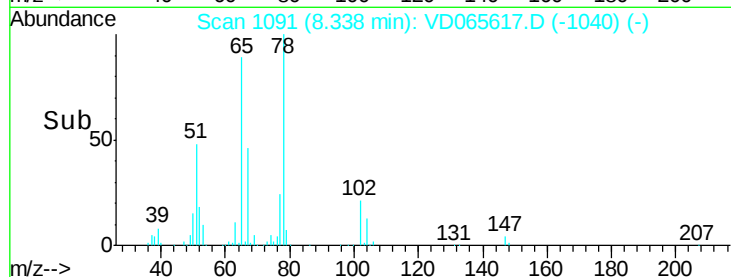
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

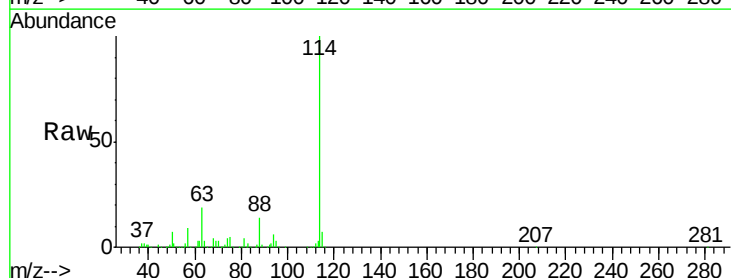
Tgt Ion: 114 Resp: 691901

Ion Ratio Lower Upper

114 100

63 19.1 0.0 38.2

88 14.3 0.0 29.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

400000

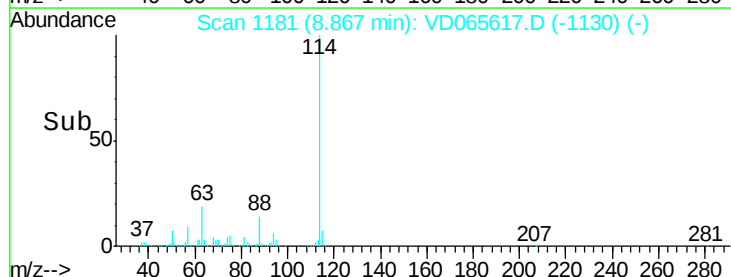
300000

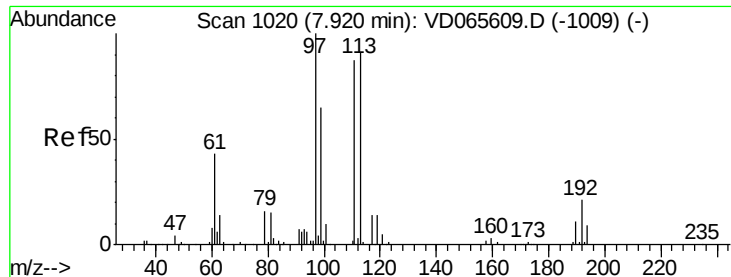
200000

100000

0

Time-->





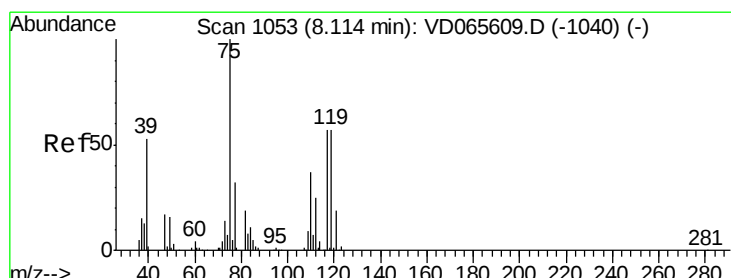
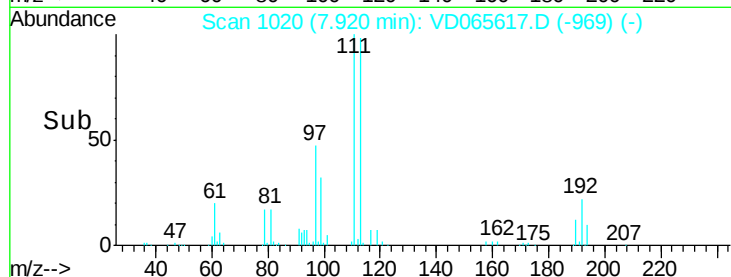
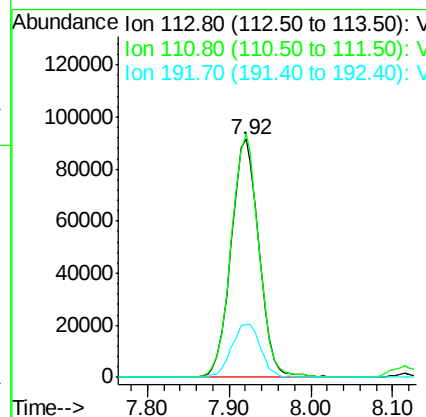
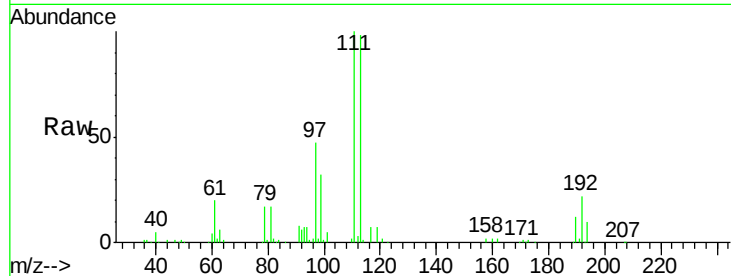
#35
 Dibromofluoromethane
 Concen: 44.959 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD065617.D
 Acq: 13 Apr 2020 15:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0413SBS01

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.3	80.6	120.8
192	23.4	18.6	27.8

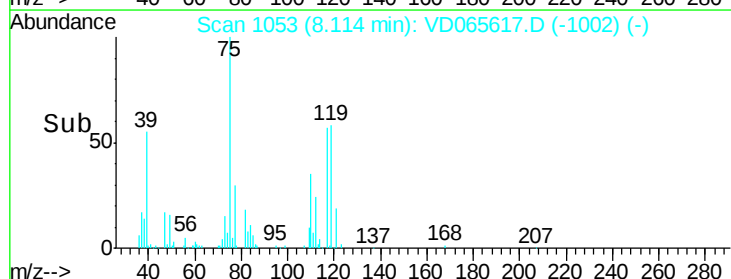
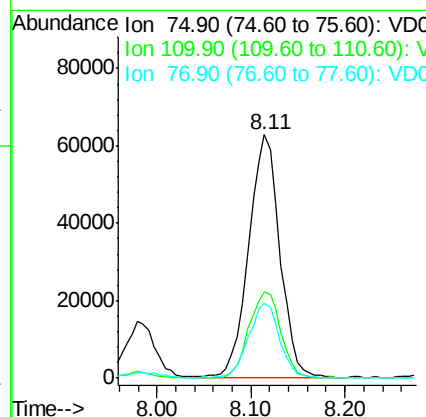
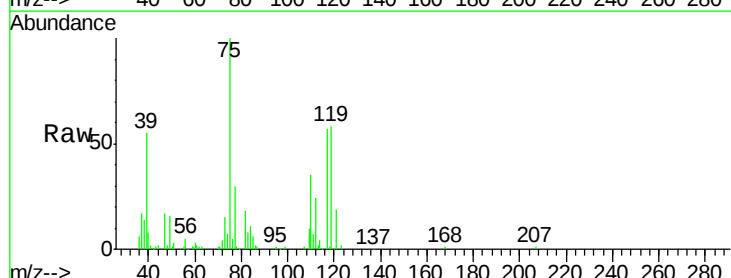
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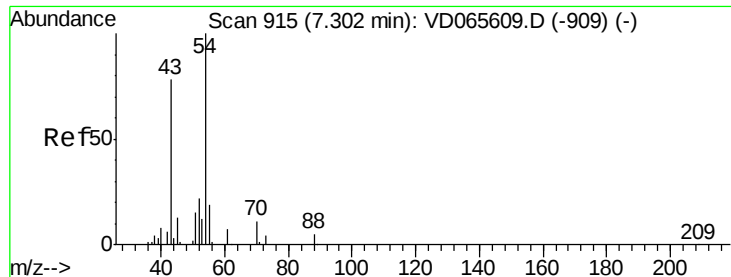
MMDadoda
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#36
 1,1-Dichloropropene
 Concen: 20.201 ug/l
 RT: 8.11 min Scan# 1053
 Delta R.T. 0.00 min
 Lab File: VD065617.D
 Acq: 13 Apr 2020 15:20

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.4	18.3	54.9
77	31.1	25.0	37.6





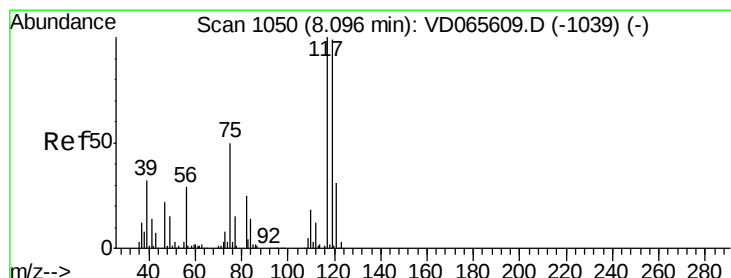
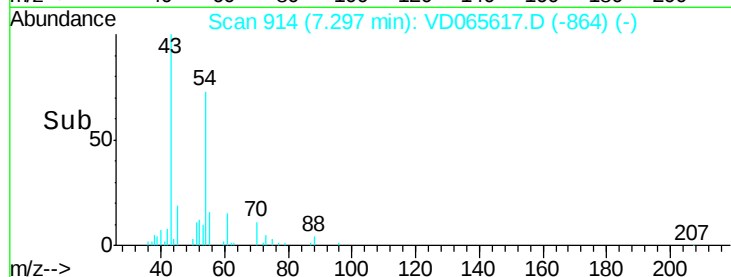
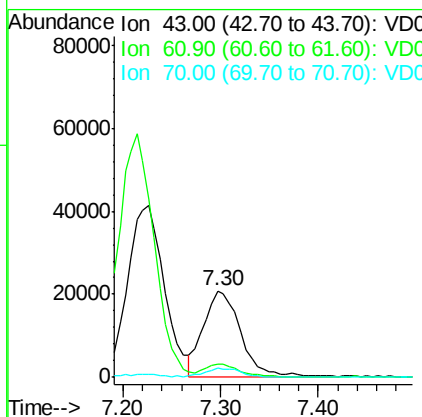
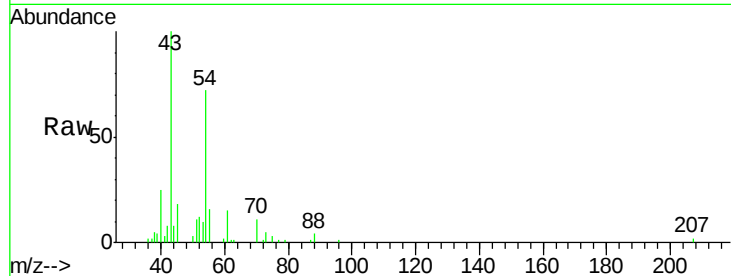
#37
Ethyl Acetate
Concen: 20.467 ug/l
RT: 7.30 min Scan# 914
Delta R.T. -0.01 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Instrument :
MSVOA_D
ClientSampleID :
VD0413BSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.1	11.3	16.9
70	10.1	8.6	13.0

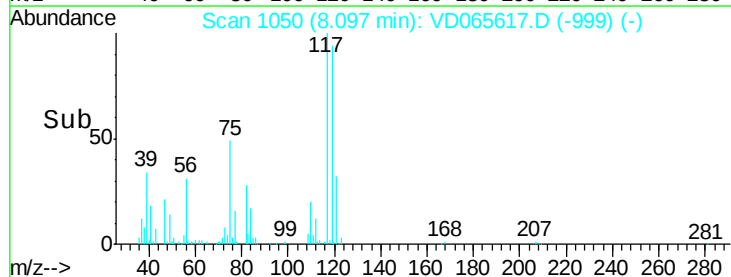
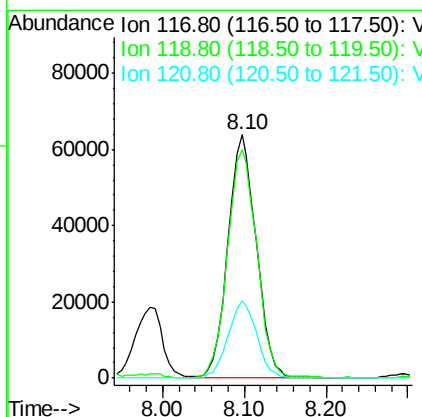
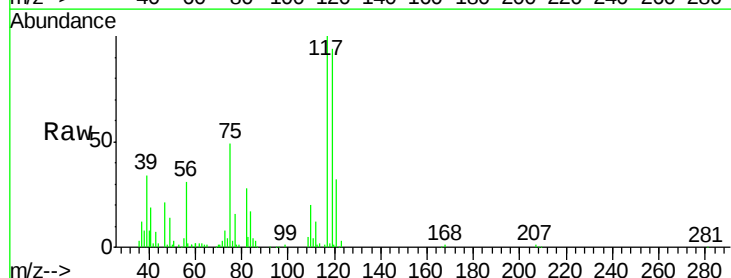
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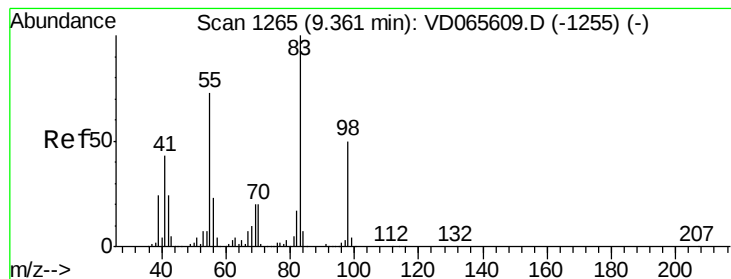
MMDadoda
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#38
Carbon Tetrachloride
Concen: 20.012 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.0	78.9	118.3
121	31.6	24.6	37.0





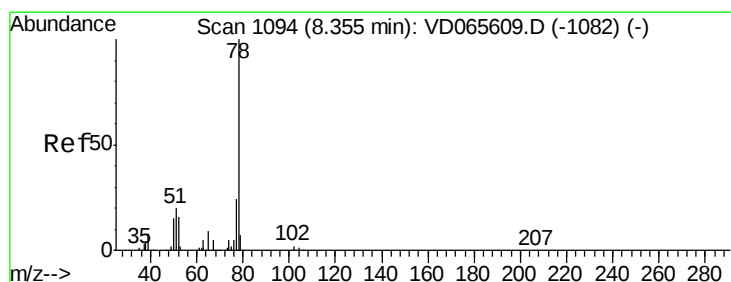
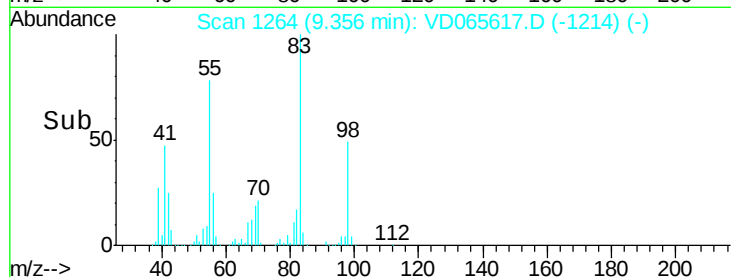
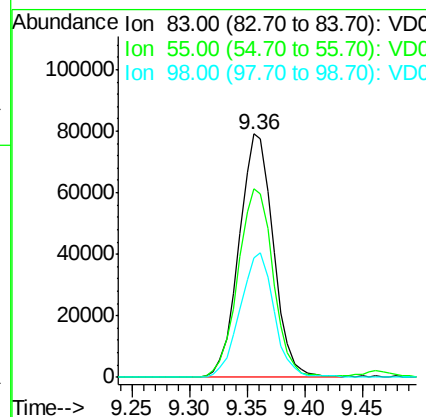
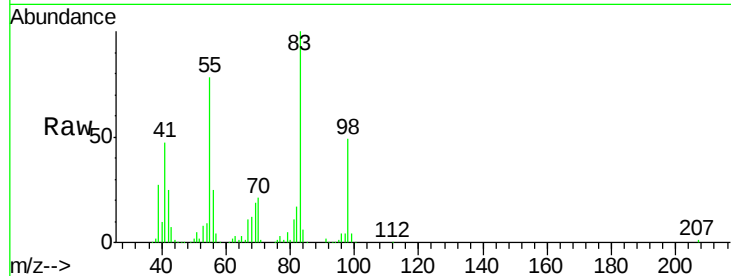
#39
Methvlcvclohexane
Concen: 20.211 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.01 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Instrument :
MSVOA_D
ClientSampleId :
VD0413BSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	77.7	58.7	88.1
98	49.1	40.2	60.4

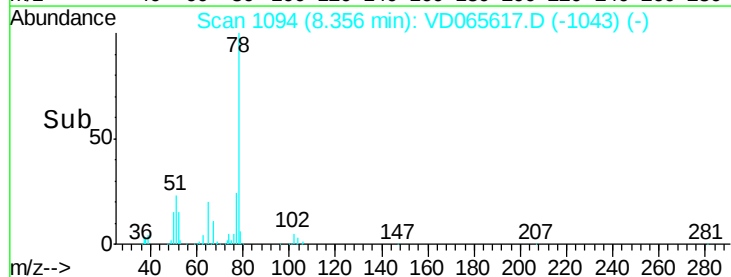
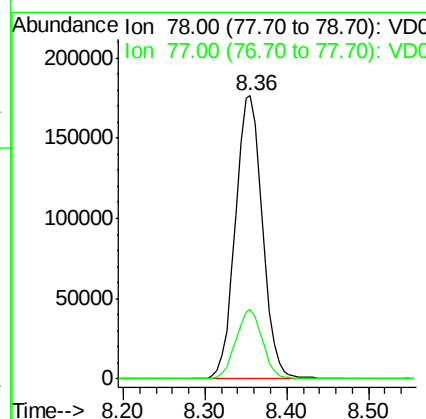
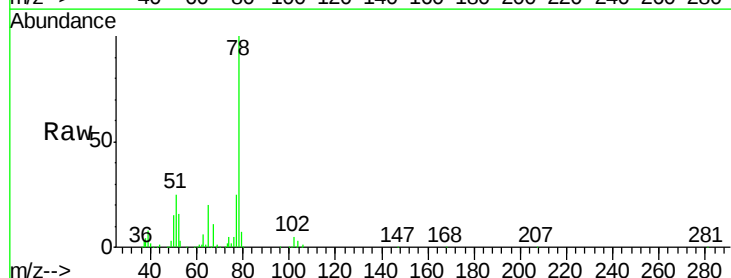
Manual Integrations
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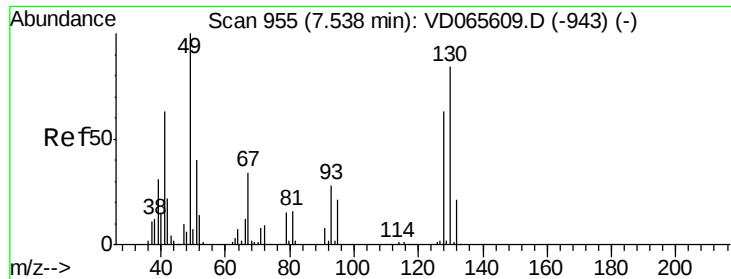
MMDadoda
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#40
Benzene
Concen: 19.998 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.6	19.4	29.0





#41

Methacrylonitrile

Concen: 16.400 ug/l

RT: 7.53 min Scan# 953

Delta R.T. -0.01 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

Instrument :

MSVOA_D

ClientSampleId :

VD0413SBS01

Tot Ion: 41 Resp: 24543

Ion Ratio Lower Upper

41 100

39 74.7 0.0 0.0#

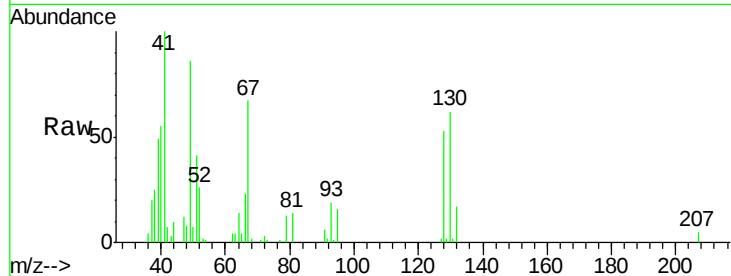
67 82.6 0.0 0.0#

52 37.2 0.0 0.0#

Manual Integrations
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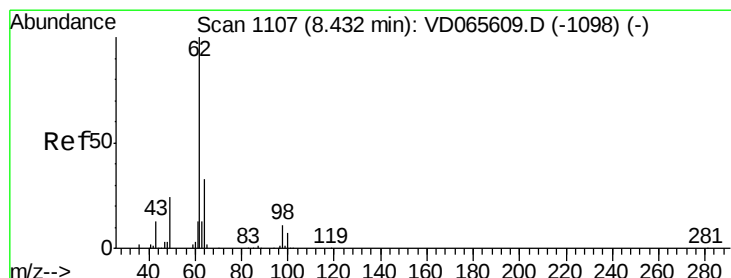
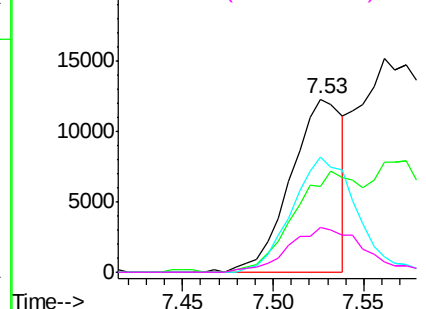
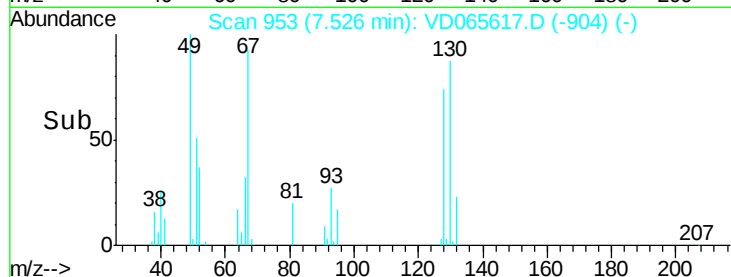


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 19.399 ug/l

RT: 8.43 min Scan# 1106

Delta R.T. -0.01 min

Lab File: VD065617.D

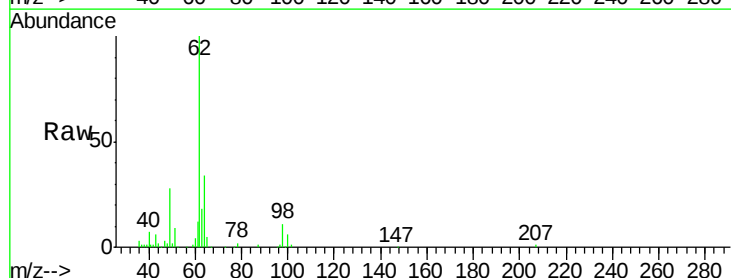
Acq: 13 Apr 2020 15:20

Tgt Ion: 62 Resp: 110281

Ion Ratio Lower Upper

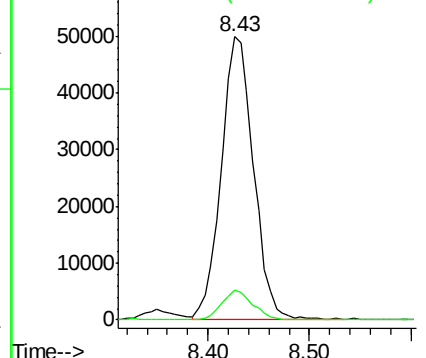
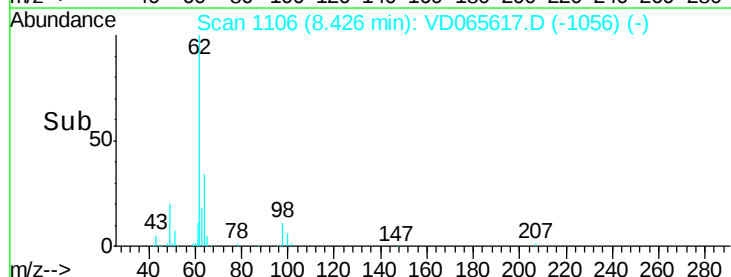
62 100

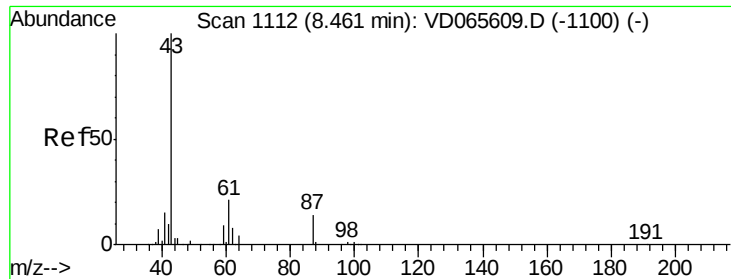
98 10.2 0.0 21.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 97.90 (97.60 to 98.60): VDC





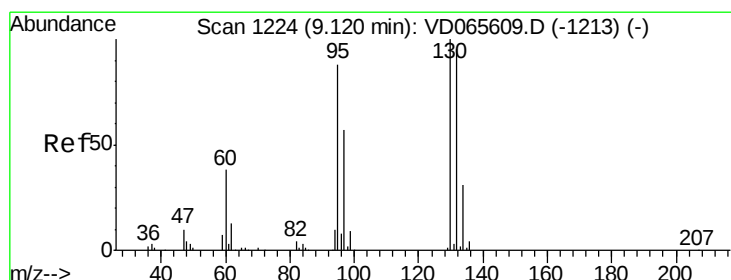
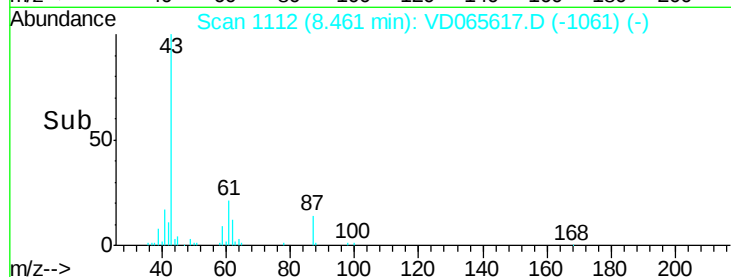
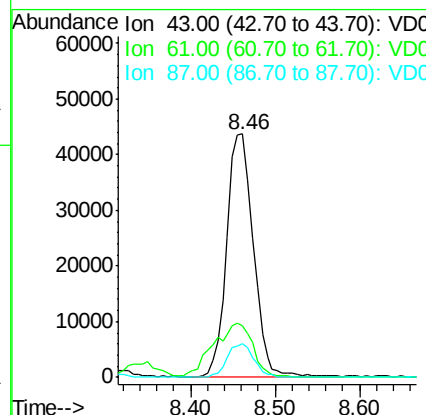
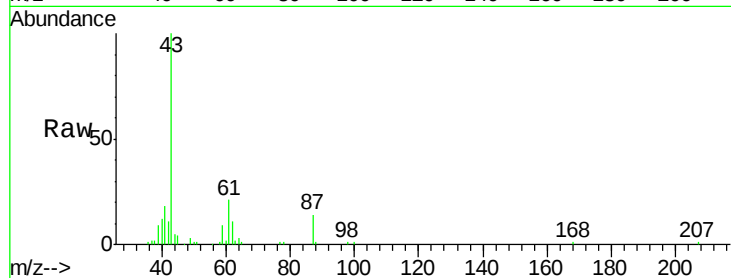
#43
Isopropyl Acetate
Concen: 19.870 ug/l
RT: 8.46 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Instrument :
MSVOA_D
ClientSampleId :
VD0413SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	32.9	25.9	38.9
87	13.6	10.9	16.3

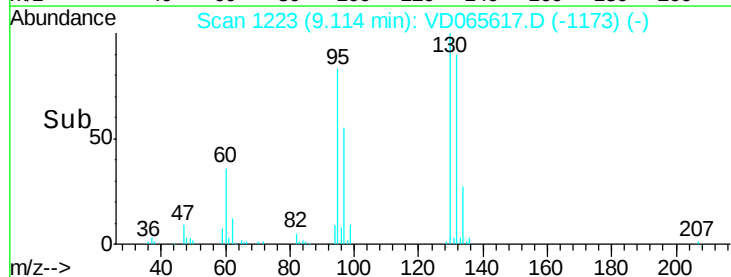
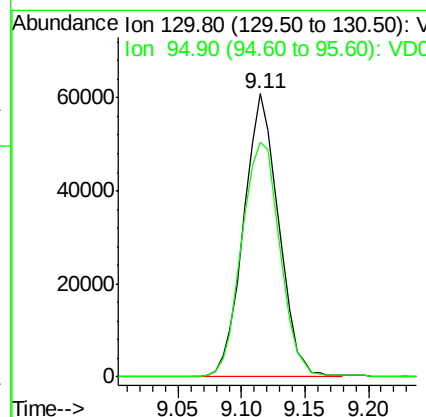
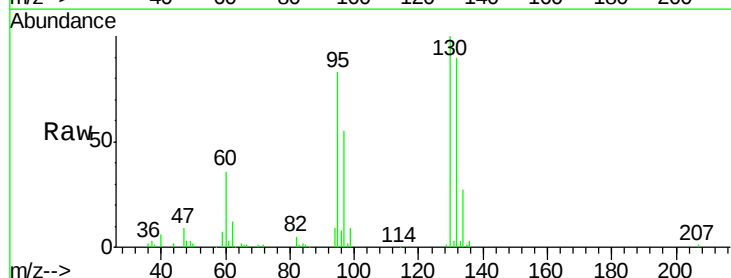
Manual Integrations
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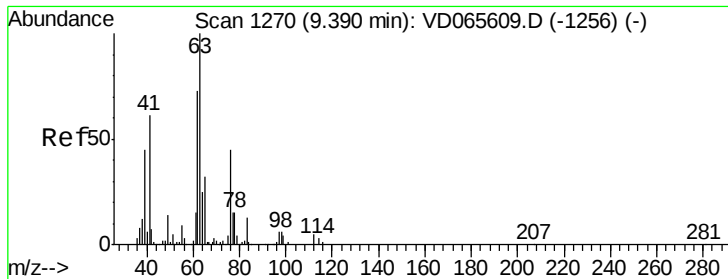
MMDadoda
4/14/2020 10:02:34 AM



#44
Trichloroethene
Concen: 20.022 ug/l
RT: 9.11 min Scan# 1223
Delta R.T. -0.01 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Tgt Ion	Ratio	Lower	Upper
130	100		
95	82.8	0.0	176.8





#45

1,2-Dichloropropane

Concen: 19.809 ug/l

RT: 9.39 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

Instrument :

MSVOA_D

ClientSampleId :

VD0413BSD01

Tot Ion: 63 Resp: 98167

Ion Ratio Lower Upper

63 100

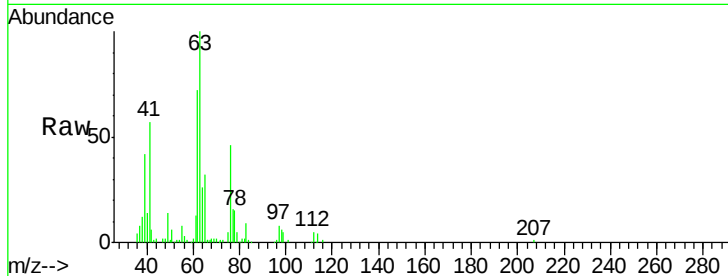
65 31.6 25.3 37.9

Manual Integrations

APPROVED

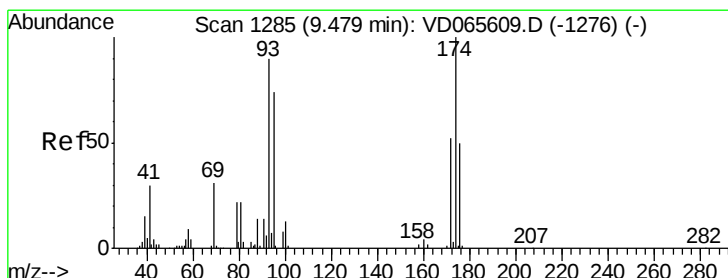
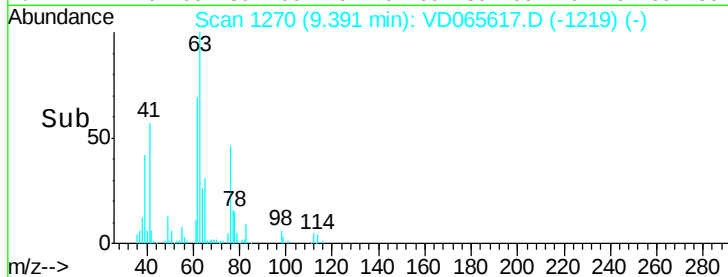
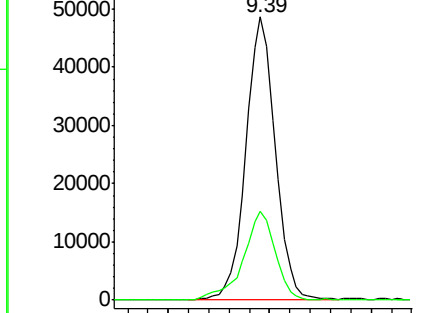
MMDadoda

4/14/2020 10:02:34 AM



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 64.90 (64.60 to 65.60): VDC



#46

Dibromomethane

Concen: 19.592 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. 0.00 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

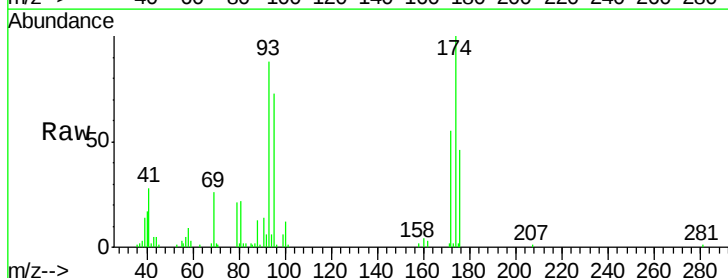
Tgt Ion: 93 Resp: 52190

Ion Ratio Lower Upper

93 100

95 83.6 66.5 99.7

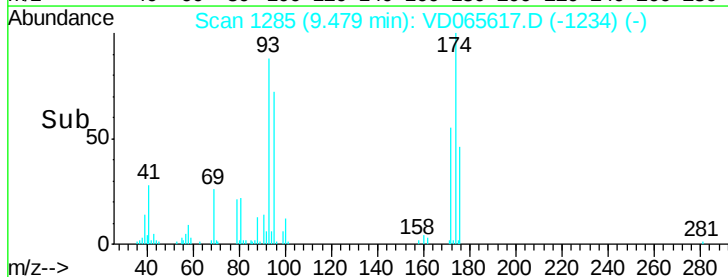
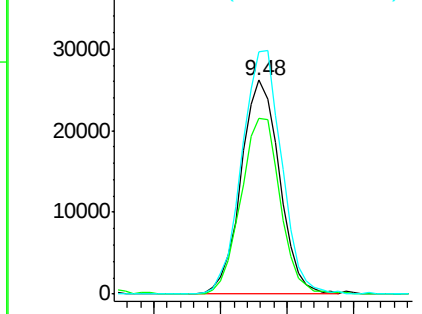
174 117.7 91.5 137.3

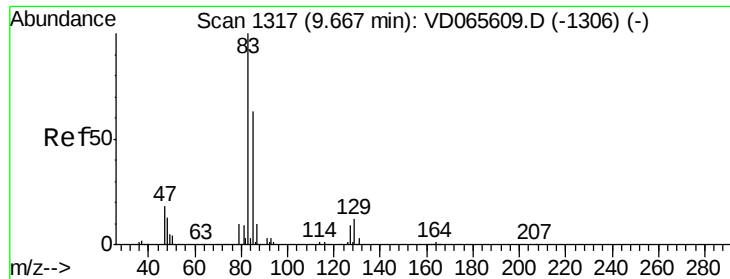


Abundance Ion 92.80 (92.50 to 93.50): VDC

Ion 94.80 (94.50 to 95.50): VDC

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 19.731 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. 0.00 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

Instrument :

MSVOA_D

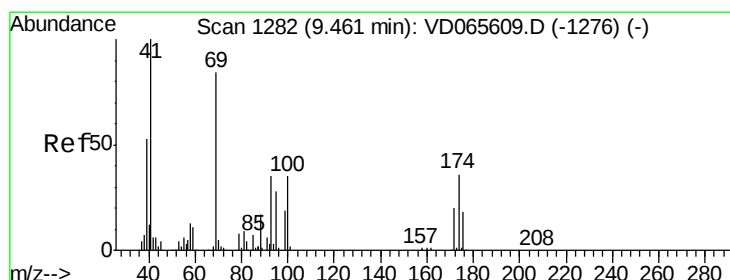
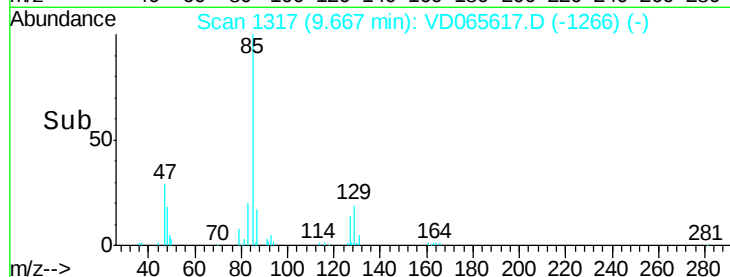
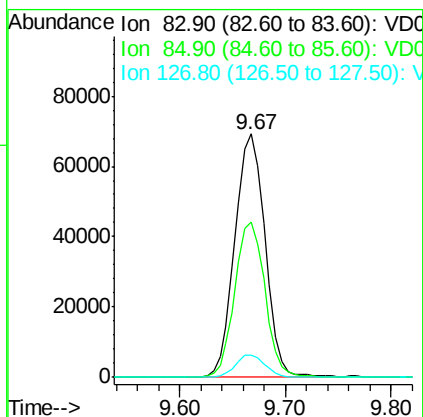
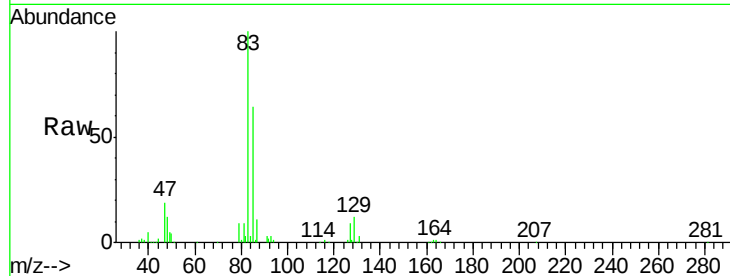
ClientSampleId :

VD0413BSD01

Tot Ion:	83	Resp:	137832
Ion Ratio	Lower	Upper	
83	100		
85	63.8	50.7	76.1
127	9.0	7.6	11.4

Manual Integrations
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#48

Methyl methacrylate

Concen: 19.665 ug/l

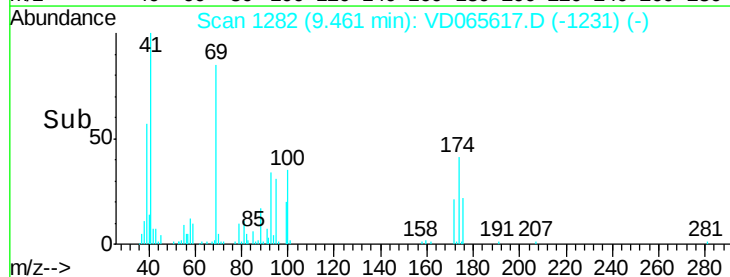
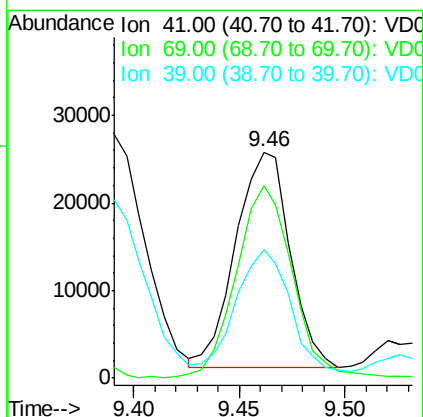
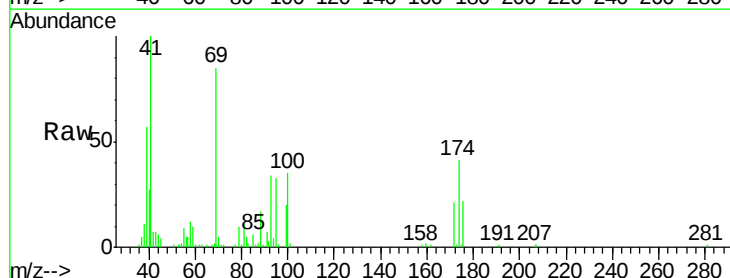
RT: 9.46 min Scan# 1282

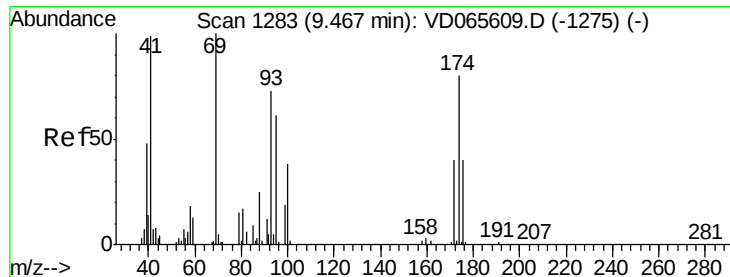
Delta R.T. 0.00 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

Tgt Ion:	41	Resp:	44011
Ion Ratio	Lower	Upper	
41	100		
69	92.8	72.4	108.6
39	55.6	43.5	65.3





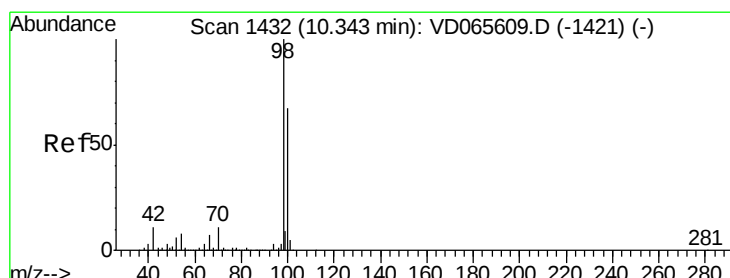
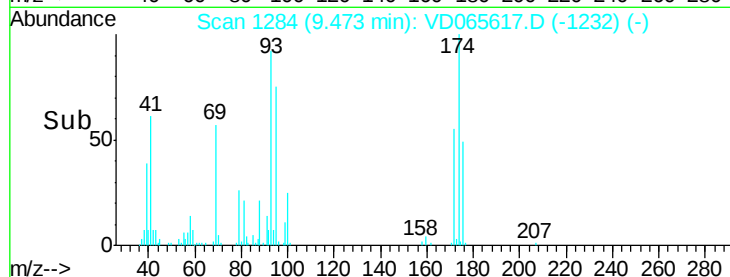
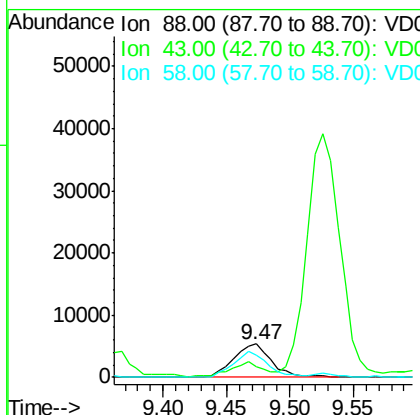
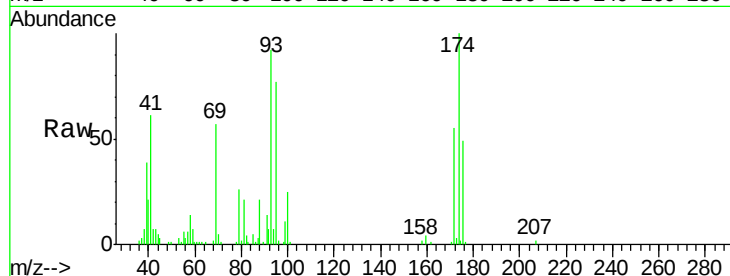
#49
1,4-Dioxane
Concen: 393.809 ug/l
RT: 9.47 min Scan# 1284
Delta R.T. 0.01 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Instrument :
MSVOA_D
ClientSampleId :
VD0413BSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	40.0	29.8	44.8
58	71.0	57.7	86.5

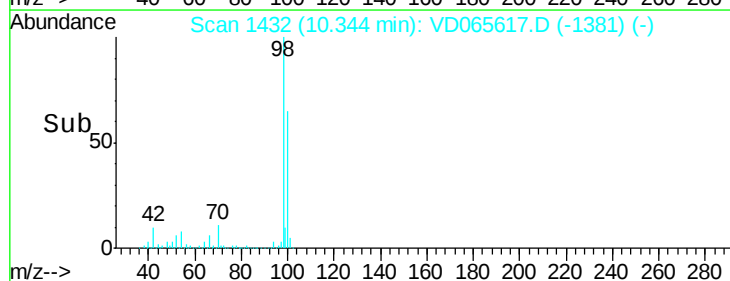
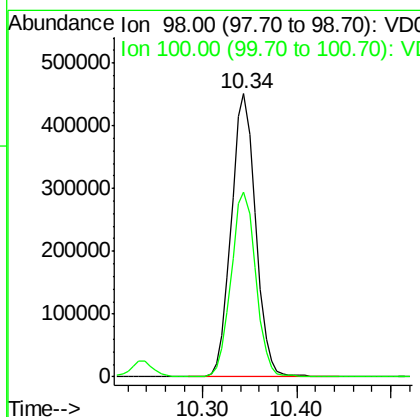
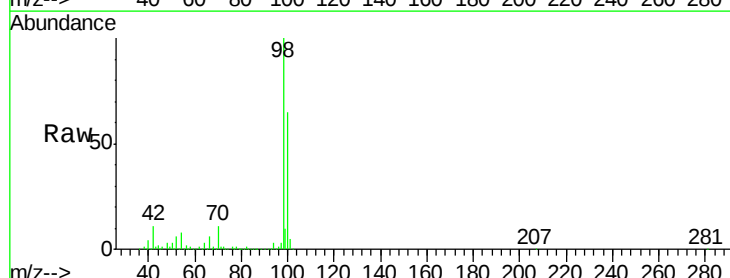
Manual Integrations
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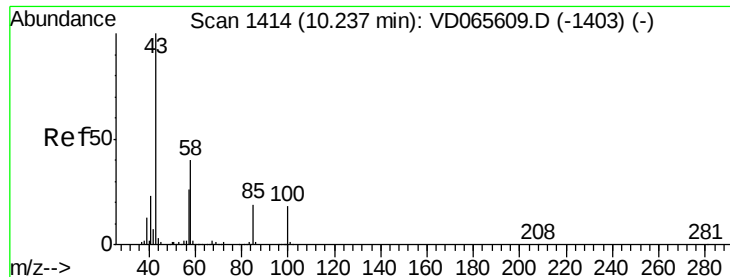
MMDadoda
4/14/2020 10:02:34 AM



#50
Toluene-d8
Concen: 46.111 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.8	52.6	79.0





#51

4-Methyl-2-Pentanone

Concen: 102.396 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.01 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

Instrument :

MSVOA_D

ClientSampleId :

VD0413BSD01

Tot Ion: 43 Resp: 254637

Ion Ratio Lower Upper

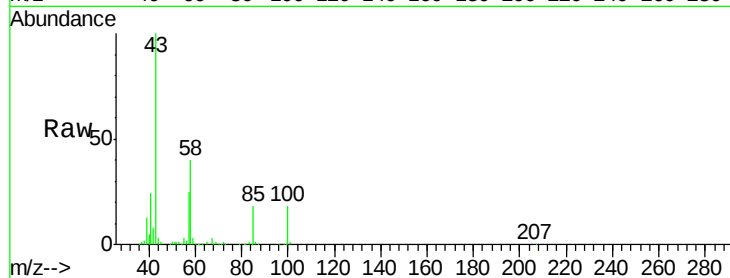
43 100

58 38.6 31.4 47.2

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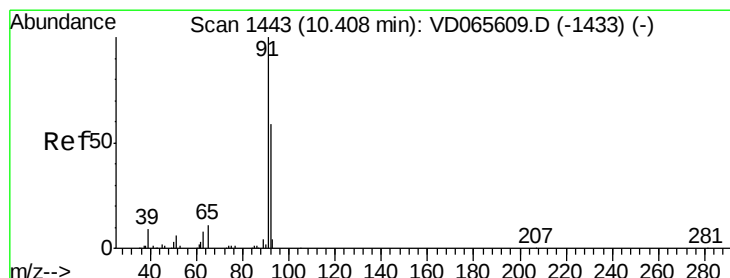
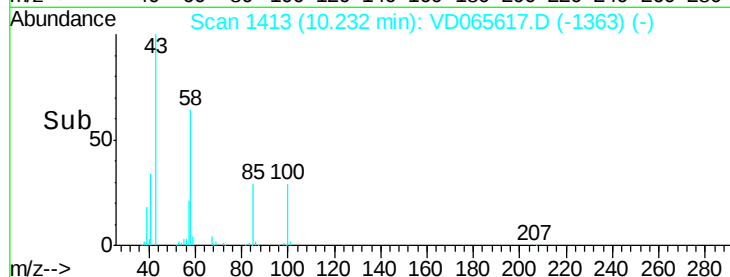
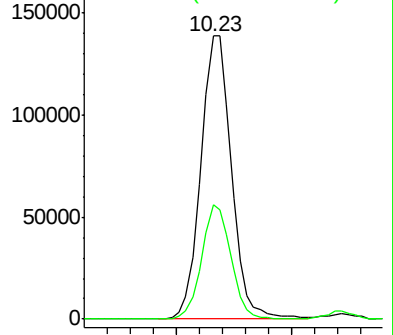
MMDadoda

4/14/2020 10:02:34 AM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#52

Toluene

Concen: 20.396 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.00 min

Lab File: VD065617.D

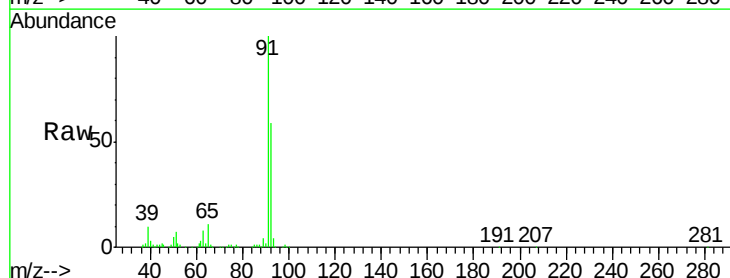
Acq: 13 Apr 2020 15:20

Tgt Ion: 92 Resp: 262464

Ion Ratio Lower Upper

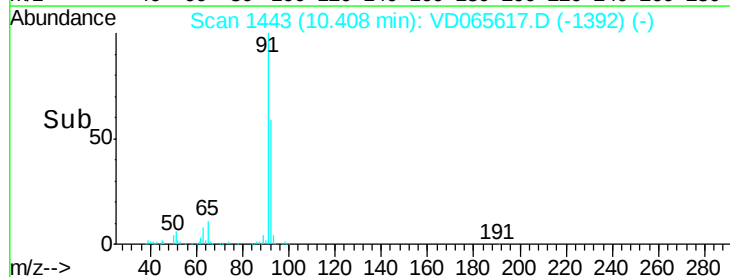
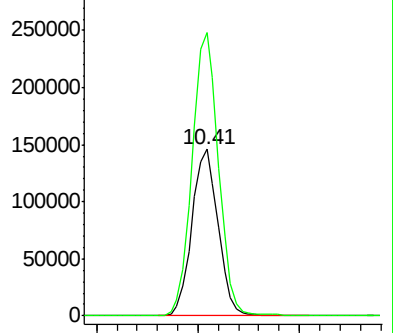
92 100

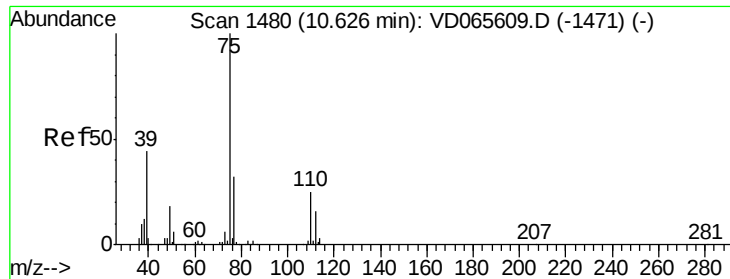
91 170.6 137.9 206.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 19.874 ug/l

RT: 10.63 min Scan# 1480

Delta R.T. 0.00 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

Instrument :

MSVOA_D

ClientSampleId :

VD0413BSD01

Tot Ion: 75 Resp: 123223

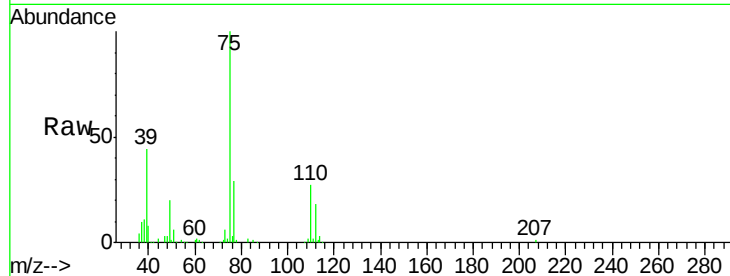
Ion Ratio Lower Upper

75 100

77 29.2 25.4 38.0

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Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC

10.63

80000

60000

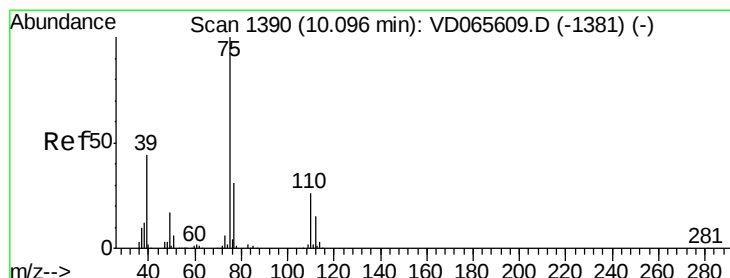
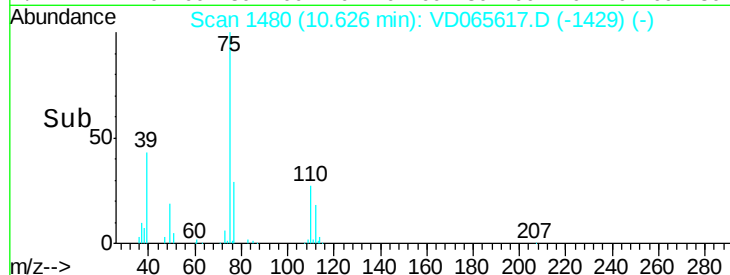
40000

20000

0

10.60 10.70

Time-->



#54

cis-1,3-Dichloropropene

Concen: 19.962 ug/l

RT: 10.10 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

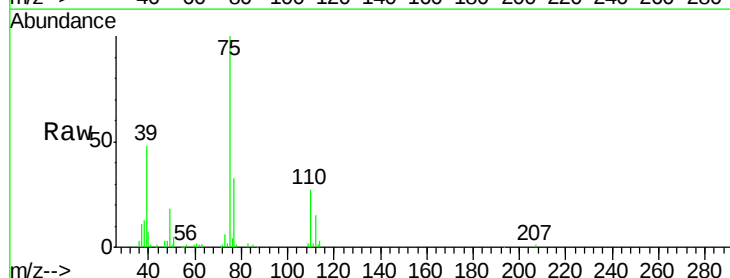
Tgt Ion: 75 Resp: 151541

Ion Ratio Lower Upper

75 100

77 32.8 24.5 36.7

39 48.1 35.5 53.3



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC

Ion 39.00 (38.70 to 39.70): VDC

10.10

100000

80000

60000

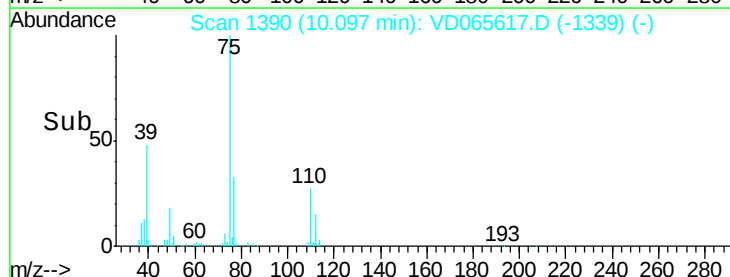
40000

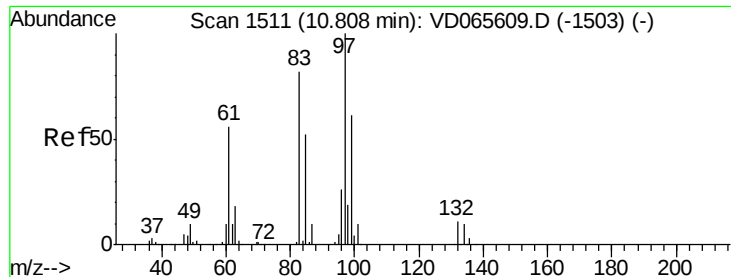
20000

0

10.00 10.10 10.20

Time-->





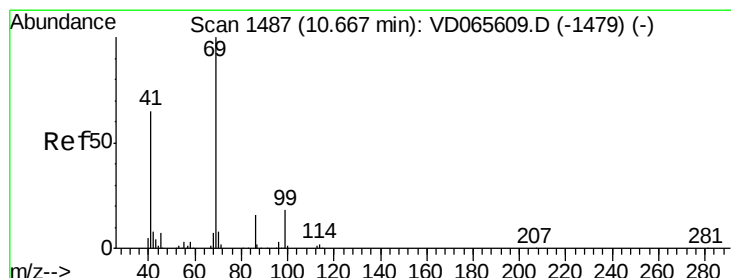
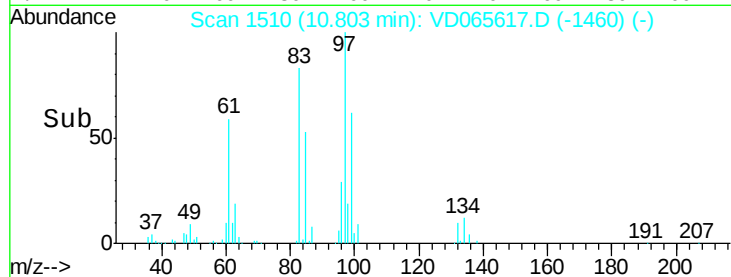
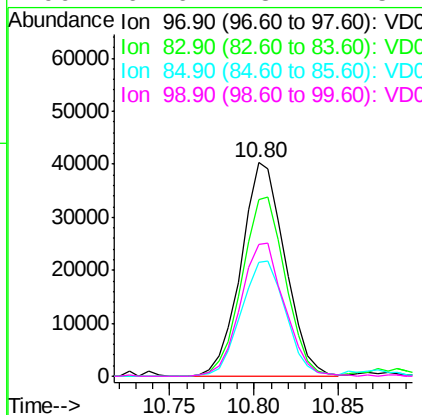
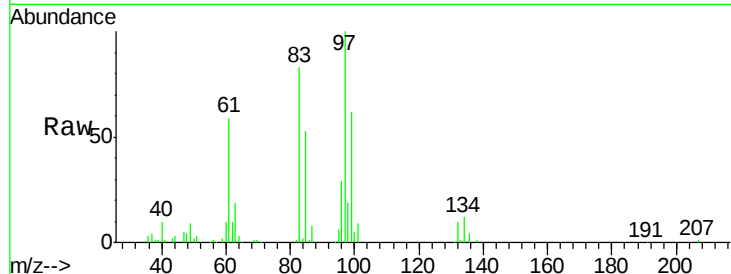
#55
 1,1,2-Trichloroethane
 Concen: 19.536 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. -0.01 min
 Lab File: VD065617.D
 Acq: 13 Apr 2020 15:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0413SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		73029		
83	82.5	65.7	98.5		
85	53.2	41.6	62.4		
99	61.6	48.7	73.1		

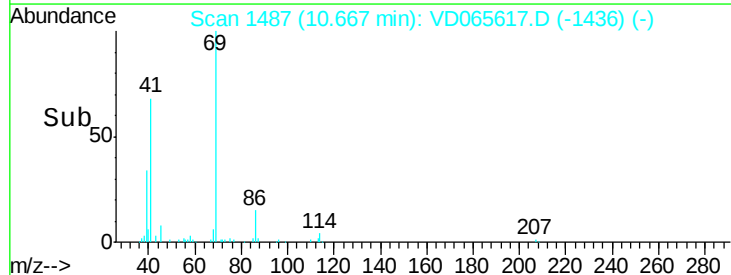
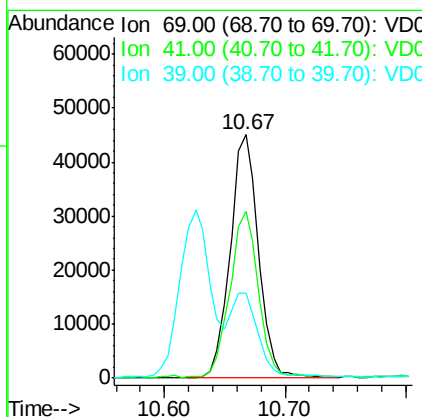
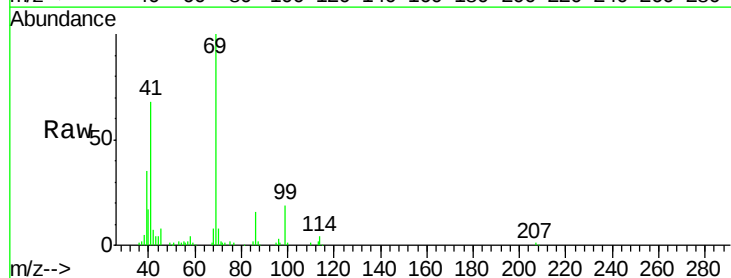
Manual Integrations
 APPROVED

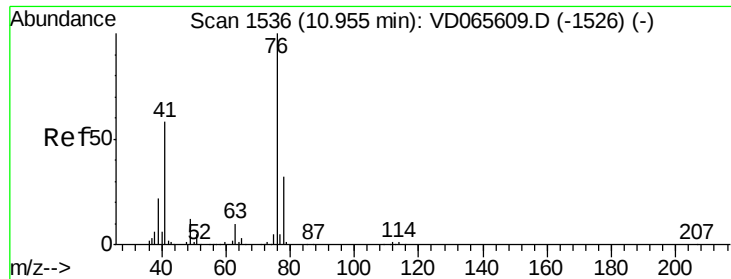
MMDadoda
 4/14/2020 10:02:34 AM



#56
 Ethyl methacrylate
 Concen: 18.721 ug/l
 RT: 10.67 min Scan# 1487
 Delta R.T. 0.00 min
 Lab File: VD065617.D
 Acq: 13 Apr 2020 15:20

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		73559		
41	70.6	54.4	81.6		
39	31.9	26.5	39.7		





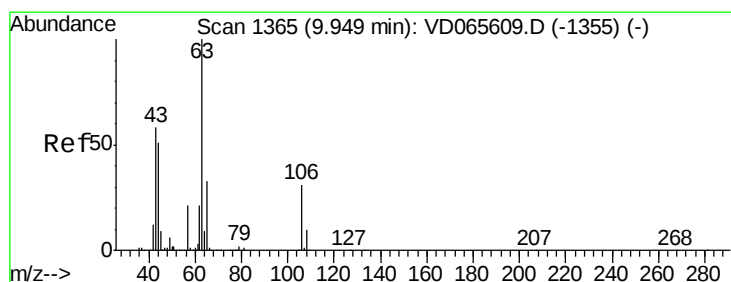
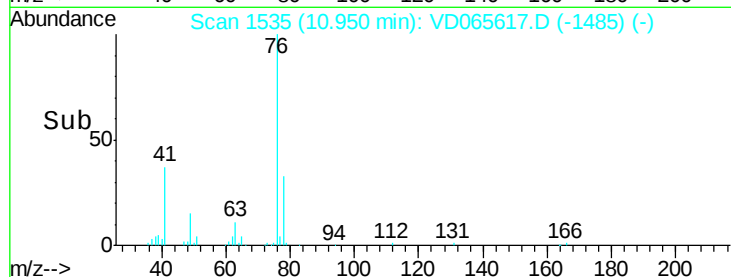
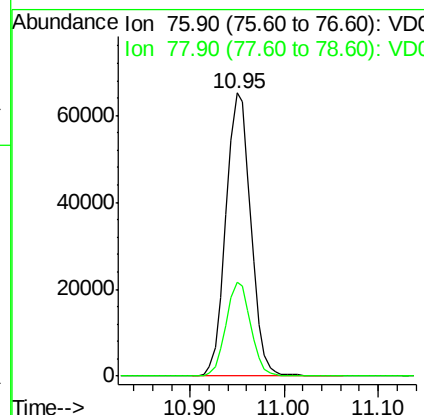
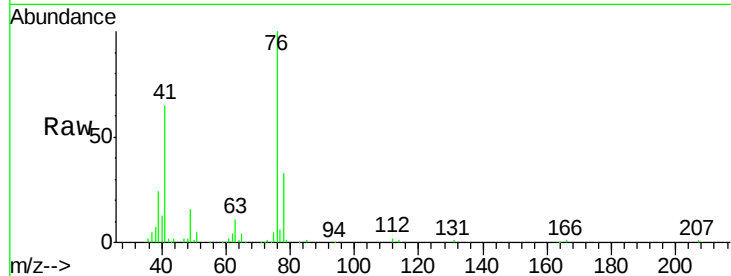
#57
 1,3-Dichloropropane
 Concen: 19.511 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. -0.01 min
 Lab File: VD065617.D
 Acq: 13 Apr 2020 15:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0413BSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	33.0	26.0	39.0

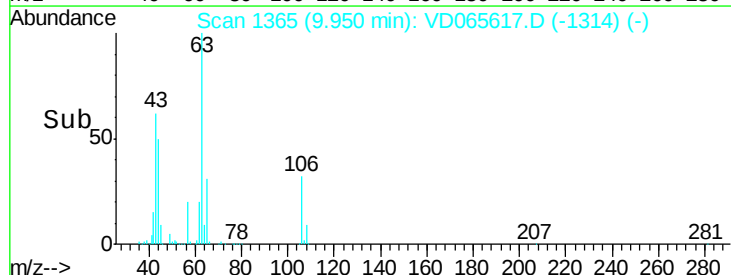
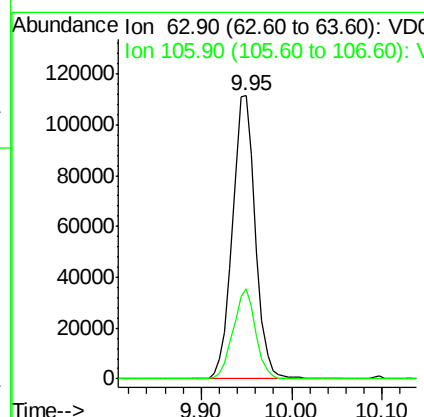
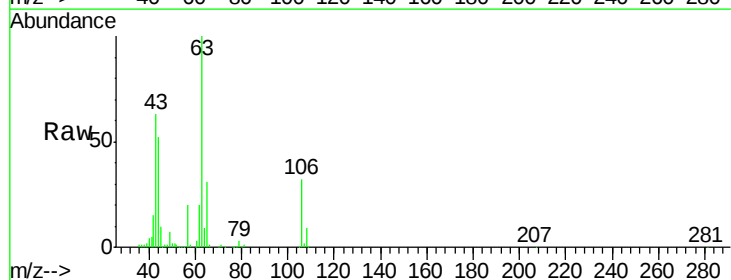
Manual Integrations
 APPROVED

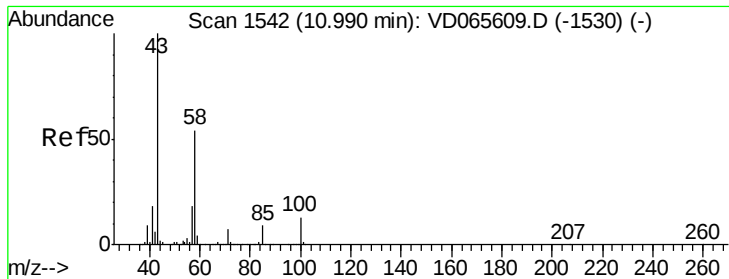
MMDadoda
 4/14/2020 10:02:34 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 99.414 ug/l
 RT: 9.95 min Scan# 1365
 Delta R.T. 0.00 min
 Lab File: VD065617.D
 Acq: 13 Apr 2020 15:20

Tgt Ion	Ratio	Lower	Upper
63	100		
106	31.2	24.2	36.2





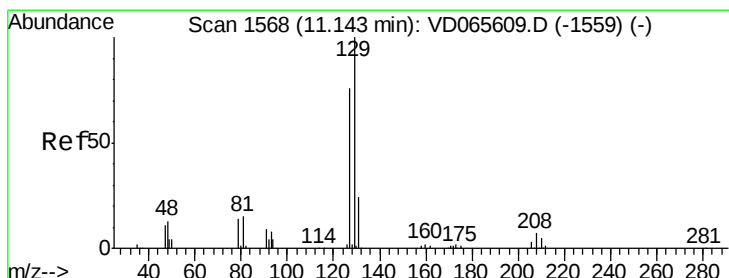
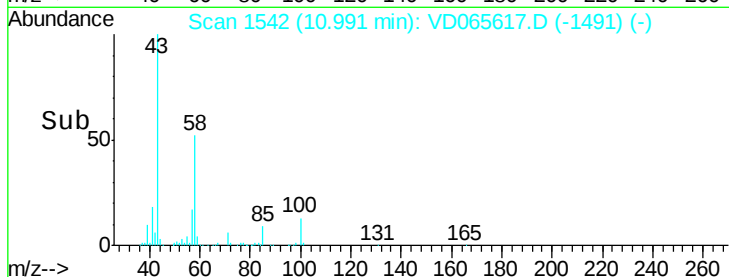
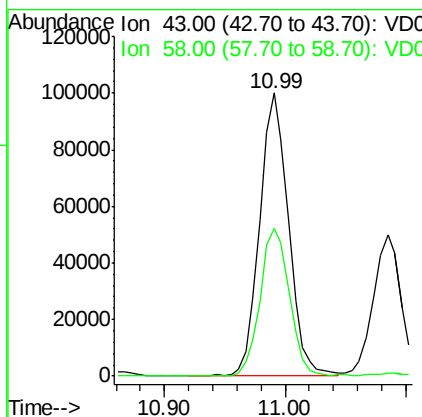
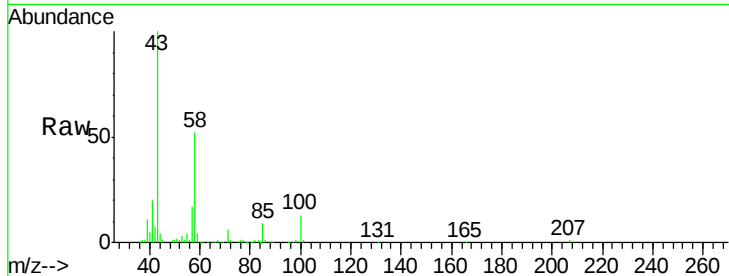
#59
2-Hexanone
Concen: 100.364 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Instrument :
MSVOA_D
ClientSampleId :
VD0413BSD01

Tot Ion: 43 Resp: 165868
Ion Ratio Lower Upper
43 100
58 52.8 27.1 81.3

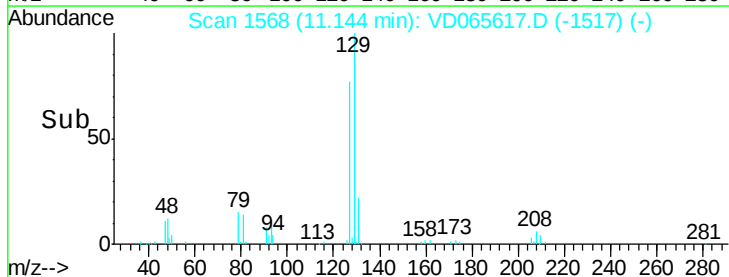
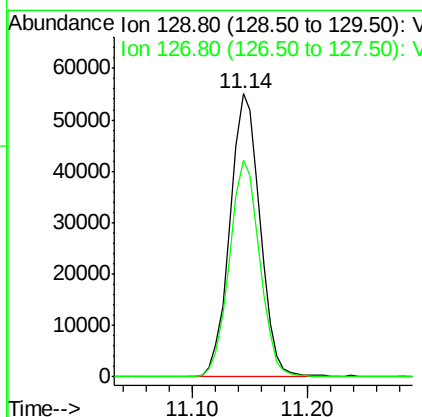
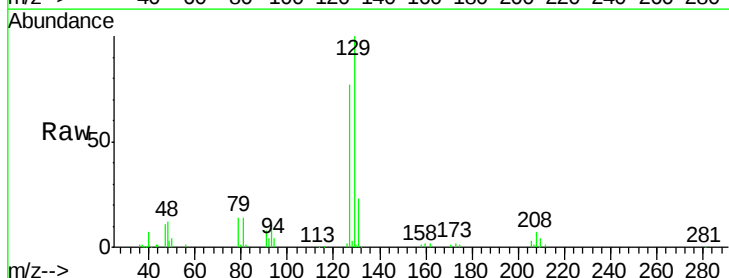
Manual Integrations
APPROVED

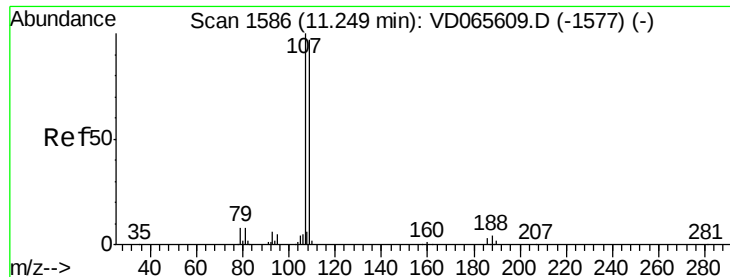
MMDadoda
4/14/2020 10:02:34 AM



#60
Dibromochloromethane
Concen: 19.994 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Tgt Ion: 129 Resp: 99539
Ion Ratio Lower Upper
129 100
127 76.6 38.1 114.3





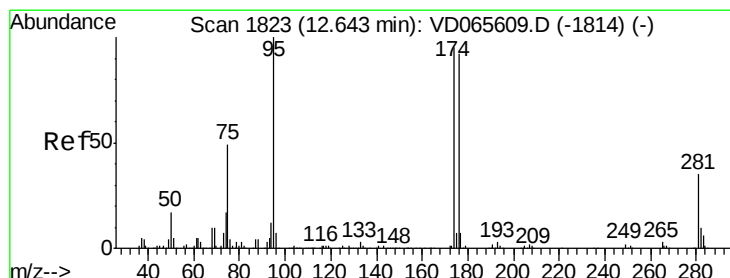
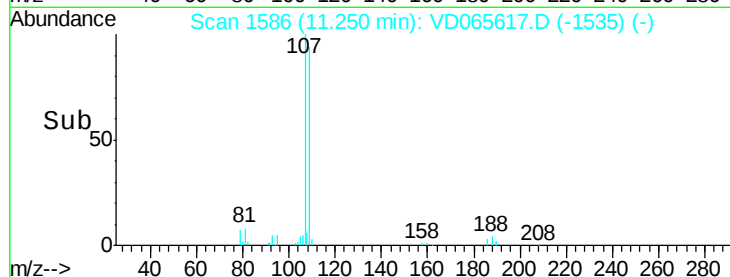
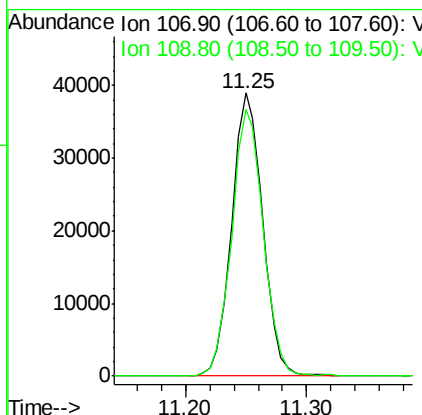
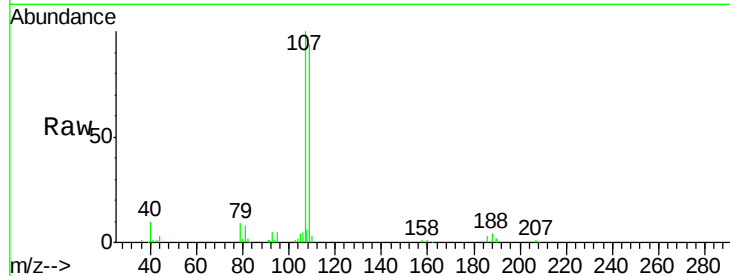
#61
 1,2-Dibromoethane
 Concen: 19.570 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. 0.00 min
 Lab File: VD065617.D
 Acq: 13 Apr 2020 15:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0413BSD01

Tot Ion	Ratio	Lower	Upper
107	100		
109	96.0	74.9	112.3

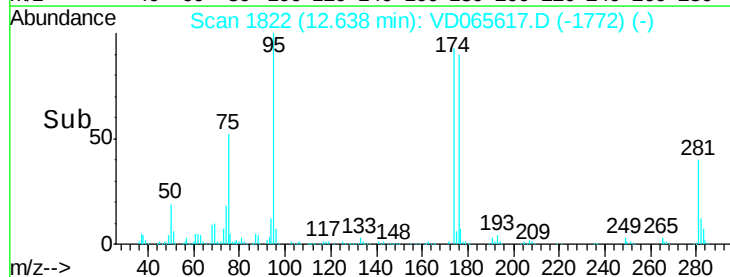
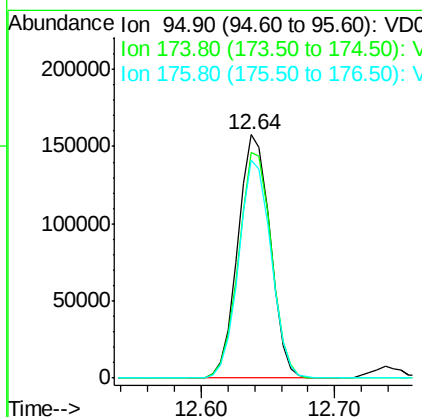
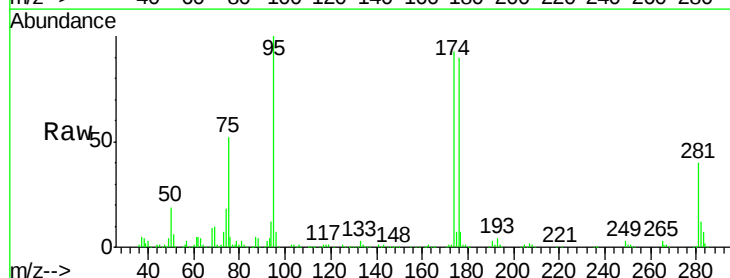
Manual Integrations
 APPROVED

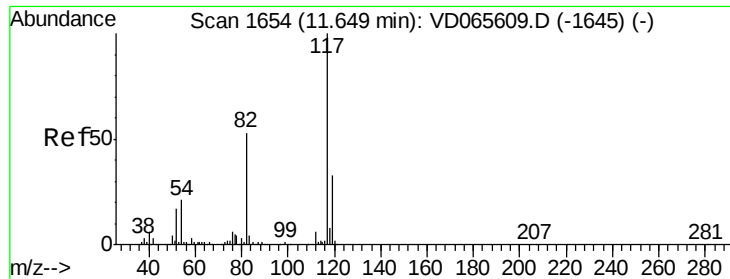
MMDadoda
 4/14/2020 10:02:34 AM



#62
 4-Bromofluorobenzene
 Concen: 46.626 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.01 min
 Lab File: VD065617.D
 Acq: 13 Apr 2020 15:20

Tgt Ion	Ratio	Lower	Upper
95	100		
174	93.5	0.0	182.8
176	89.5	0.0	176.6





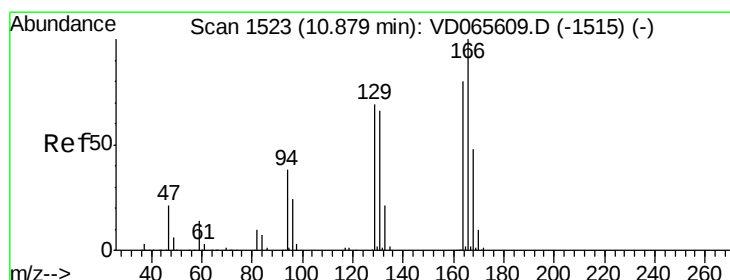
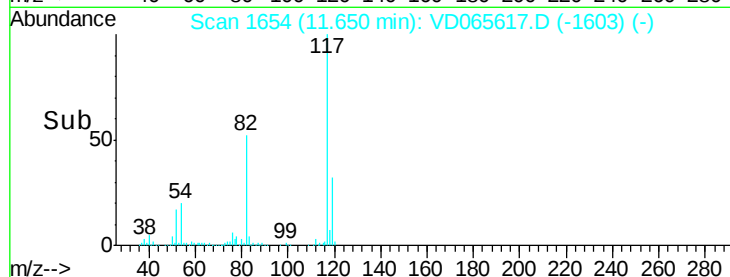
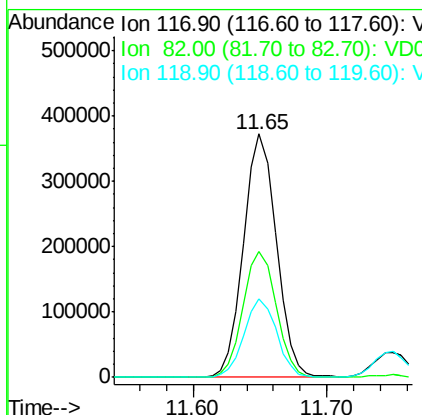
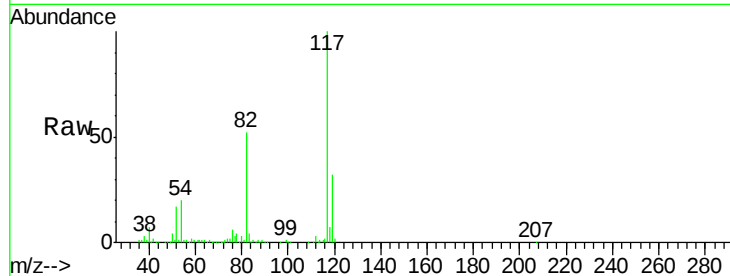
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Instrument :
MSVOA_D
ClientSampleId :
VD0413BSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.7	42.6	64.0
119	32.3	26.7	40.1

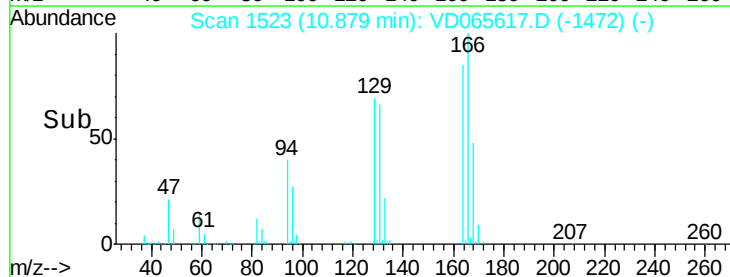
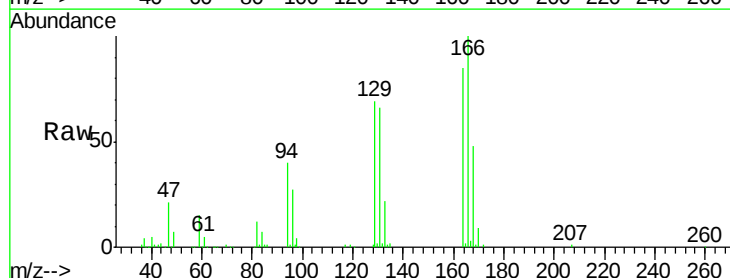
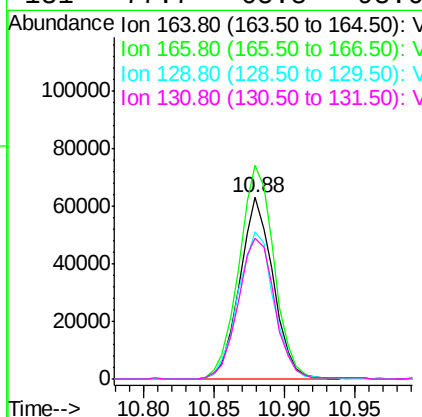
Manual Integrations
APPROVED

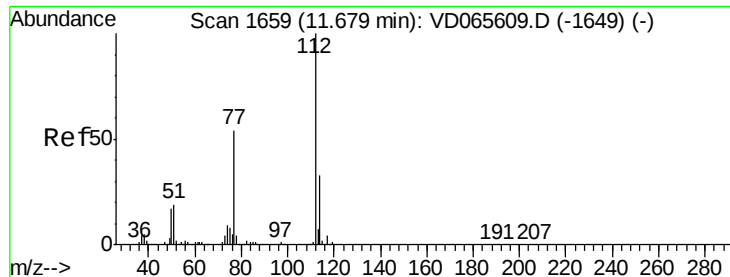
MMDadoda
4/14/2020 10:02:34 AM



#64
Tetrachloroethene
Concen: 20.620 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Tgt Ion	Ratio	Lower	Upper
164	100		
166	117.8	100.2	150.2
129	81.3	69.5	104.3
131	77.7	65.8	98.6





#65

Chlorobenzene

Concen: 20.039 ug/l

RT: 11.67 min Scan# 1658

Delta R.T. -0.01 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

Instrument :

MSVOA_D

ClientSampleId :

VD0413BSD01

Tot Ion:112 Resp: 275761

Ion Ratio Lower Upper

112 100

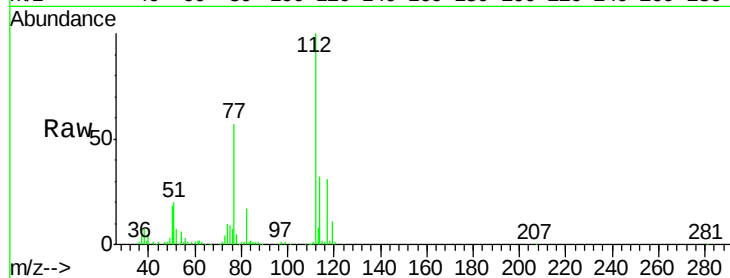
114 32.1 26.2 39.2

Manual Integrations

APPROVED

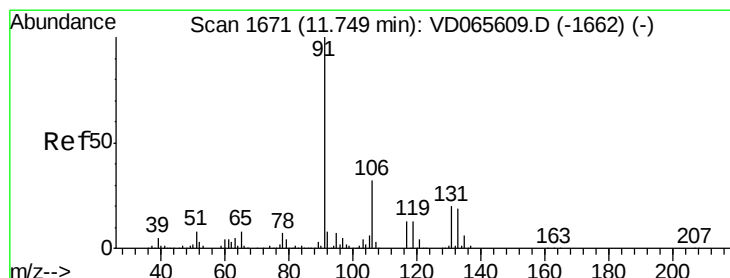
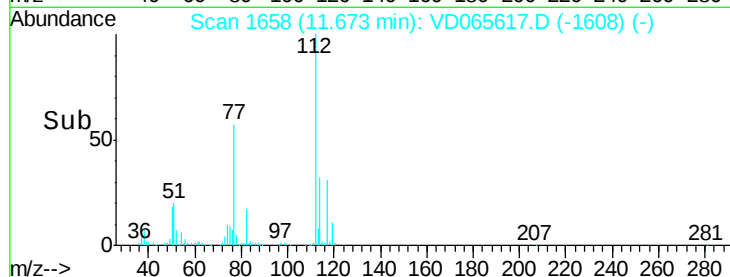
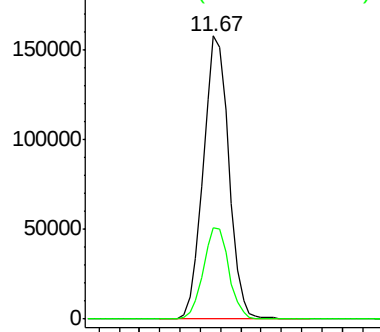
MMDadoda

4/14/2020 10:02:34 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 20.055 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

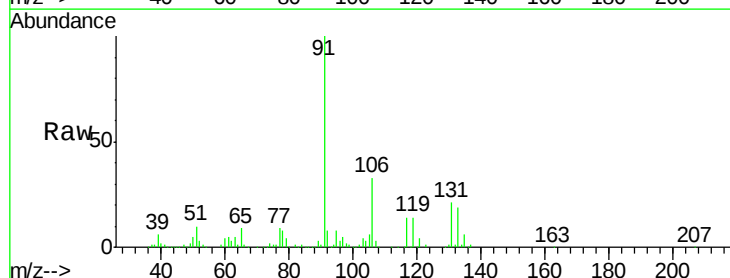
Tgt Ion:131 Resp: 105135

Ion Ratio Lower Upper

131 100

133 95.4 47.3 142.0

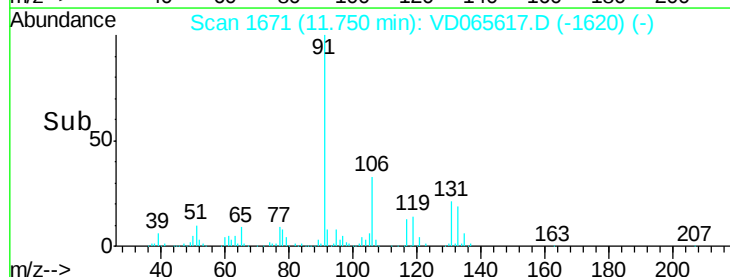
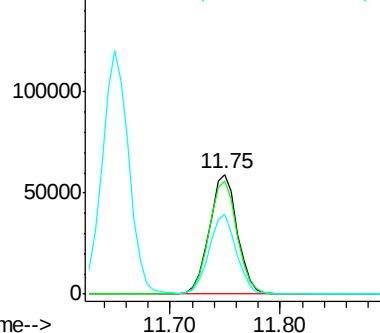
119 65.0 31.9 95.9

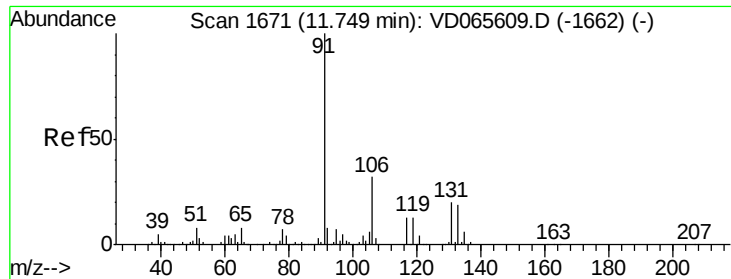


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





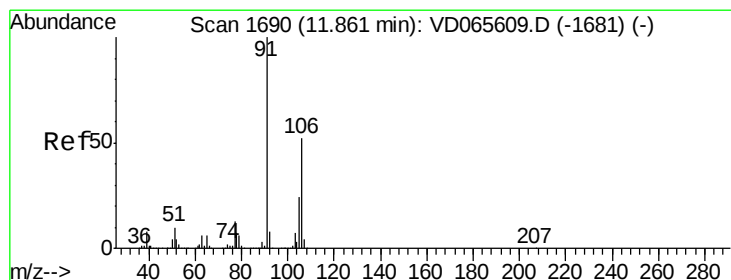
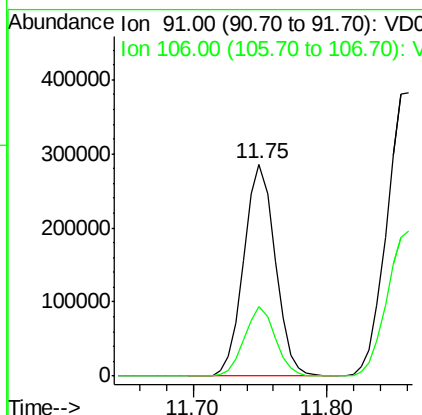
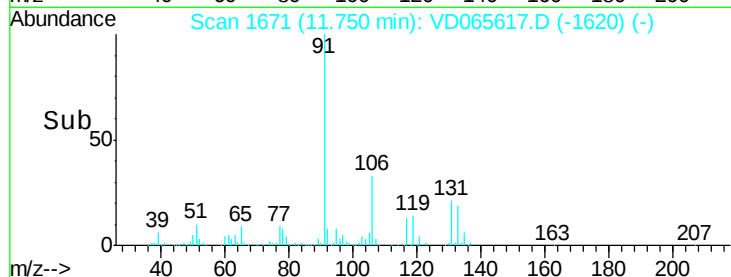
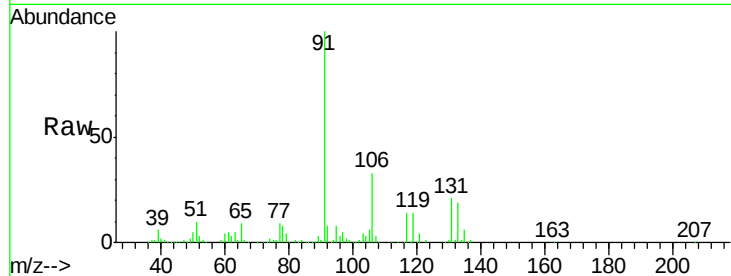
#67
Ethyl Benzene
Concen: 20.480 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Instrument :
MSVOA_D
ClientSampleId :
VD0413BSD01

Tot Ion: 91 Resp: 465396
Ion Ratio Lower Upper
91 100
106 32.6 25.6 38.4

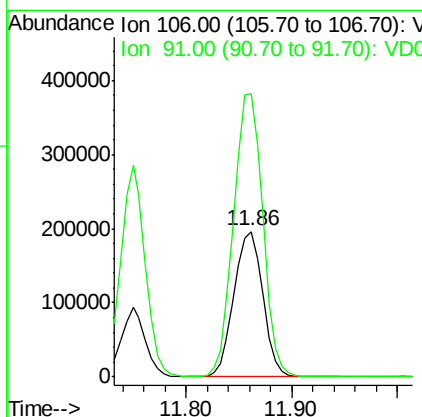
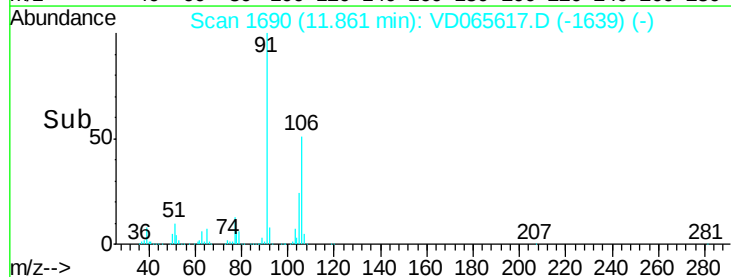
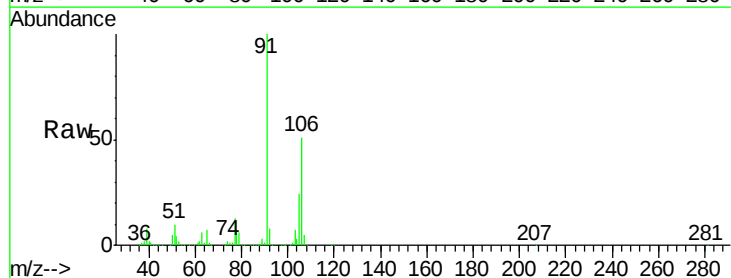
Manual Integrations
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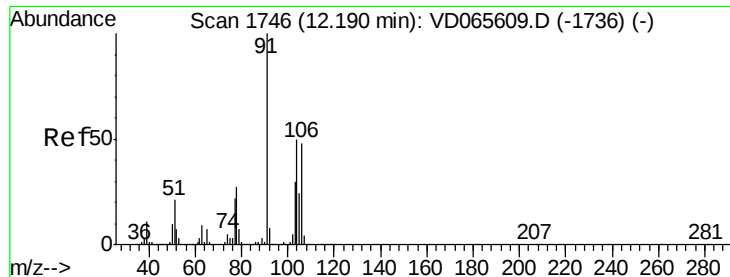
MMDadoda
4/14/2020 10:02:34 AM



#68
m/p-Xylenes
Concen: 41.369 ug/l
RT: 11.86 min Scan# 1690
Delta R.T. 0.00 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Tgt Ion: 106 Resp: 370879
Ion Ratio Lower Upper
106 100
91 197.2 155.0 232.4





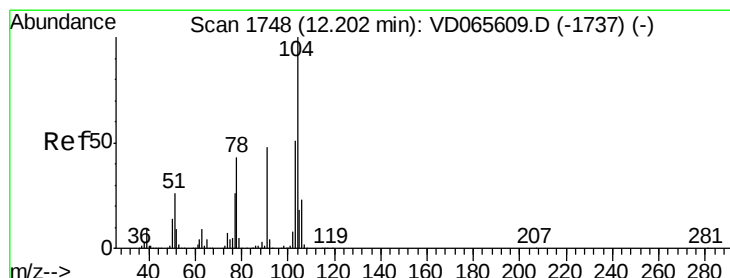
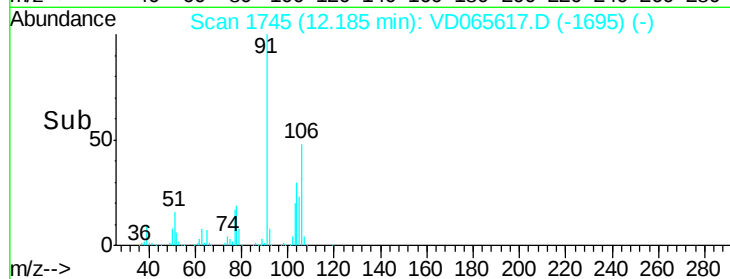
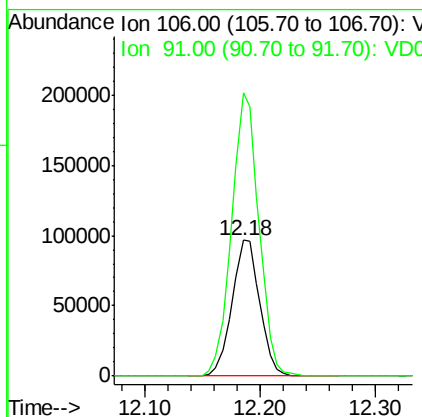
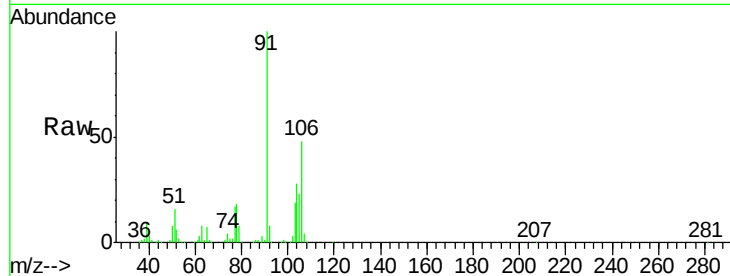
#69
o-Xylene
Concen: 20.826 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.01 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Instrument :
MSVOA_D
ClientSampleId :
VD0413BSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	160889		
91	91	204.6	103.8	311.3	

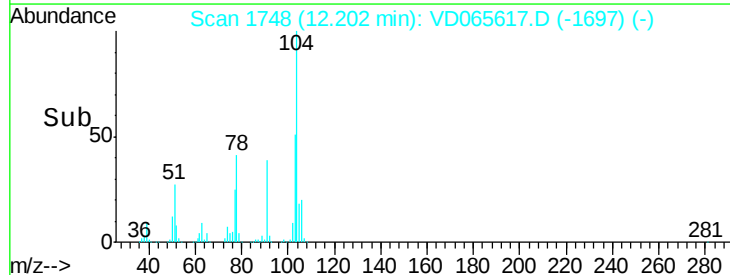
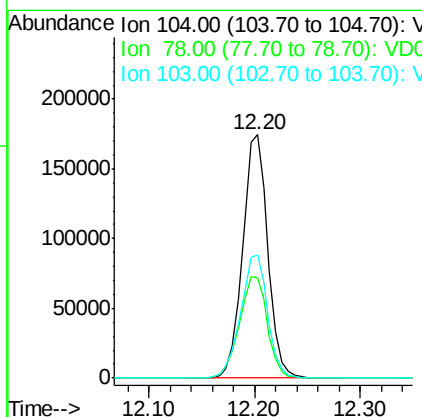
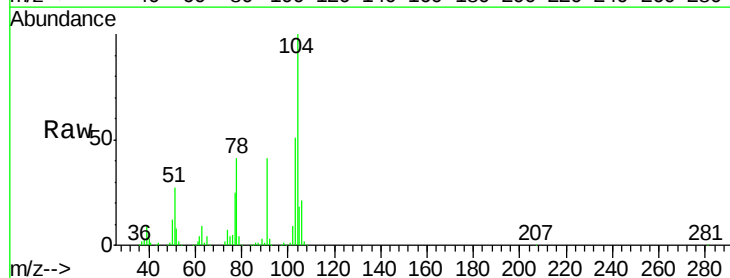
Manual Integrations
APPROVED

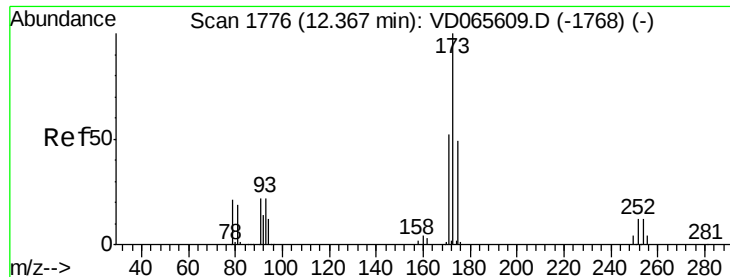
MMDadoda
4/14/2020 10:02:34 AM



#70
Styrene
Concen: 20.999 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. 0.00 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	286809		
78	78	46.6	37.1	55.7	
103	103	54.4	43.2	64.8	





#71

Bromoform

Concen: 19.110 ug/l

RT: 12.37 min Scan# 1776

Delta R.T. 0.00 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

Instrument :

MSVOA_D

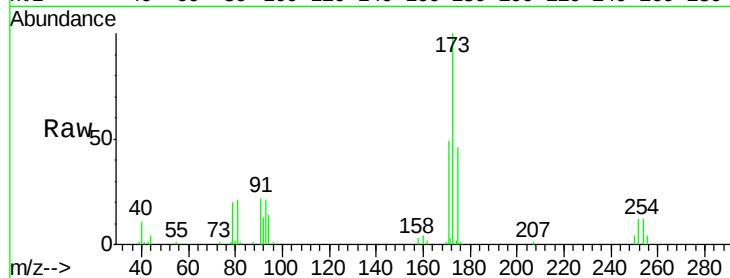
ClientSampleId :

VD0413SBSD01

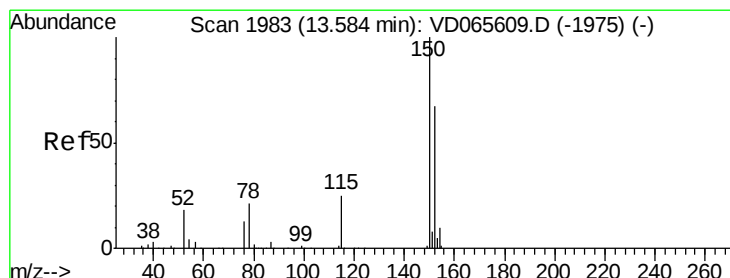
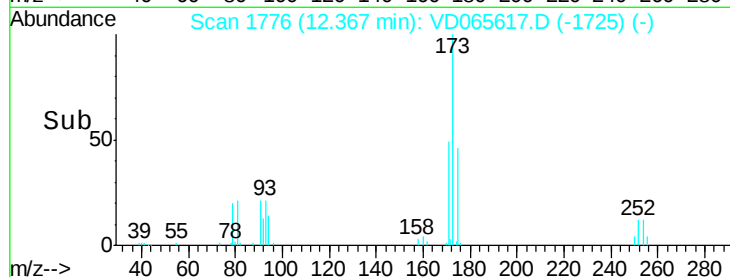
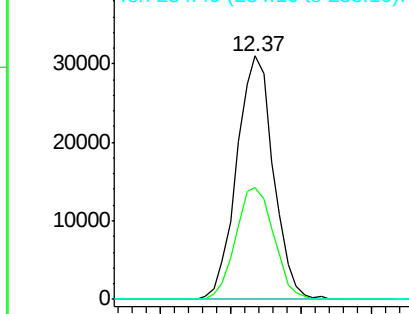
Tot Ion:	173	Resp:	56186
Ion Ratio	Lower	Upper	
173	100		
175	47.7	24.5	73.5
254	0.0	0.0	0.0

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

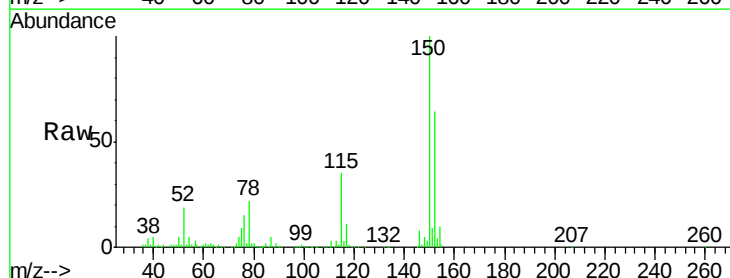
RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

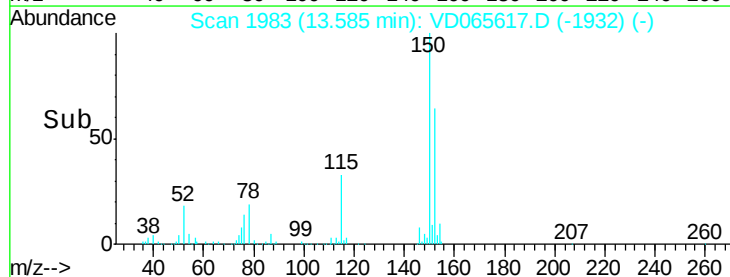
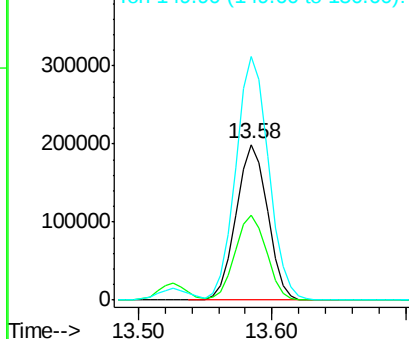
Lab File: VD065617.D

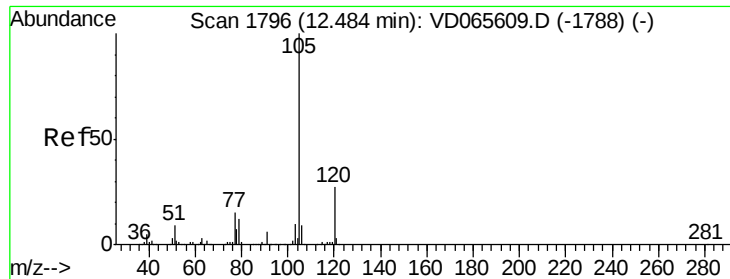
Acq: 13 Apr 2020 15:20

Tgt Ion:	152	Resp:	325295
Ion Ratio	Lower	Upper	
152	100		
115	54.8	27.1	81.2
150	163.5	0.0	348.2



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





#73

Isopropylbenzene

Concen: 21.470 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

Instrument :

MSVOA_D

ClientSampleId :

VD0413BSD01

Tot Ion: 105 Resp: 445012

Ion Ratio Lower Upper

105 100

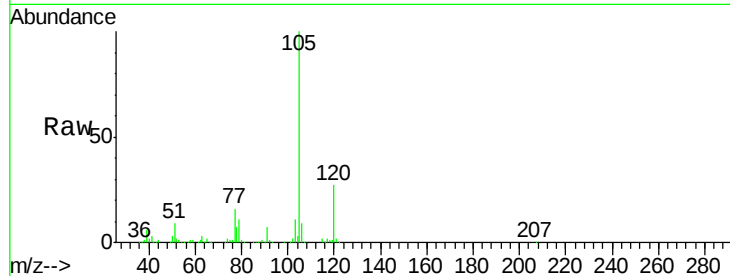
120 26.7 13.8 41.3

Manual Integrations

APPROVED

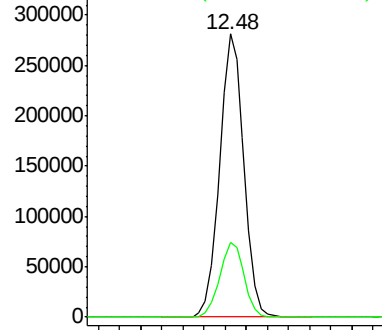
MMDadoda

4/14/2020 10:02:34 AM

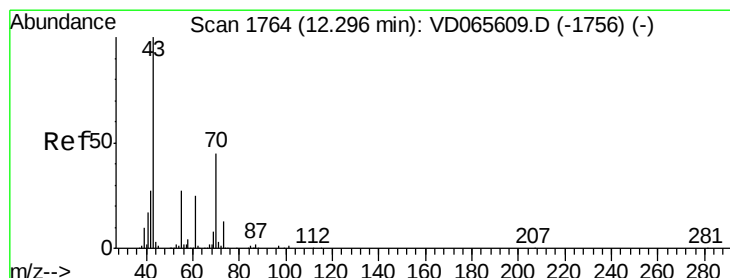
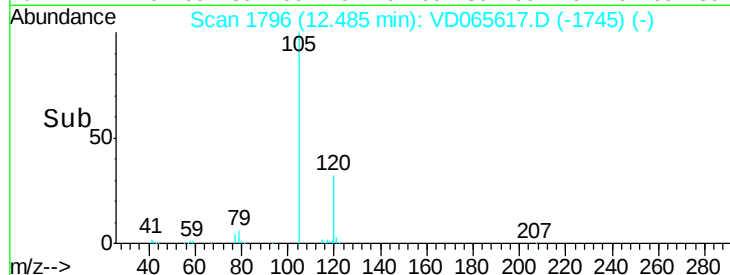


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



Time-->



#74

N-ethyl acetate

Concen: 19.944 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

Tgt Ion: 43 Resp: 84921

Ion Ratio Lower Upper

43 100

70 44.0 35.2 52.8

55 28.7 22.5 33.7

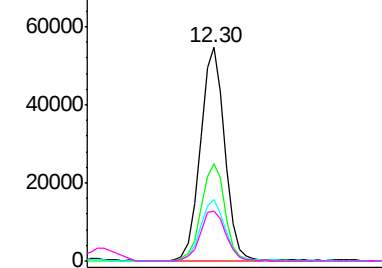
61 24.5 19.4 29.0

Abundance Ion 43.00 (42.70 to 43.70): VDC

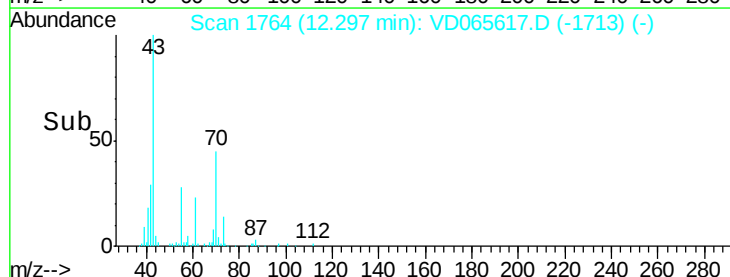
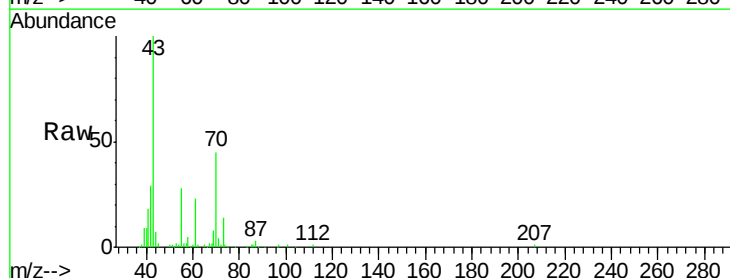
Ion 70.00 (69.70 to 70.70): VDC

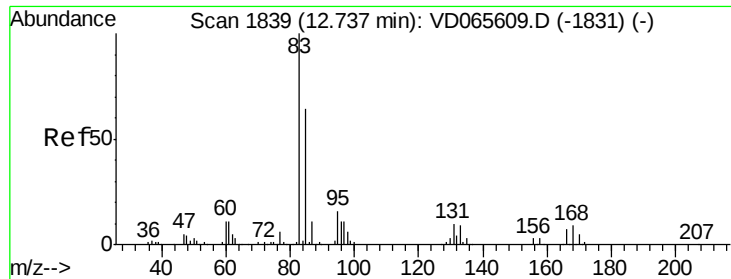
Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC



Time-->





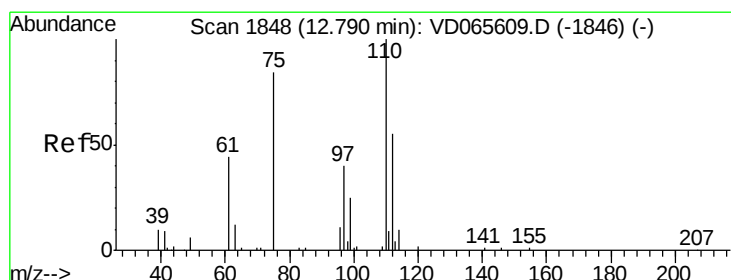
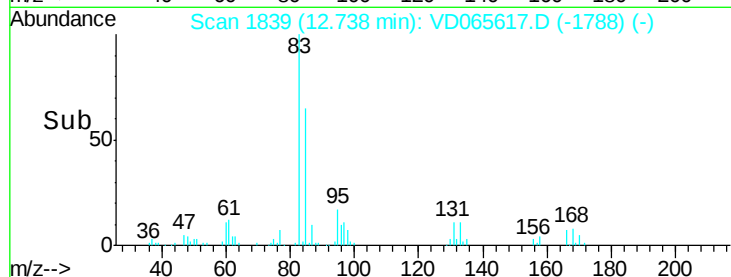
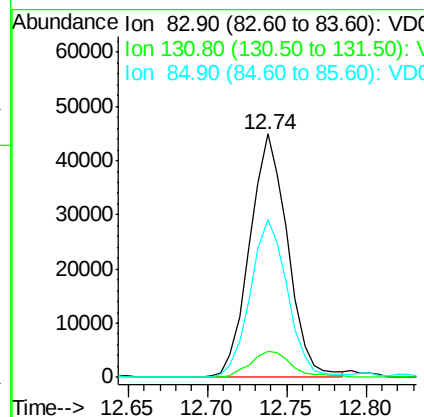
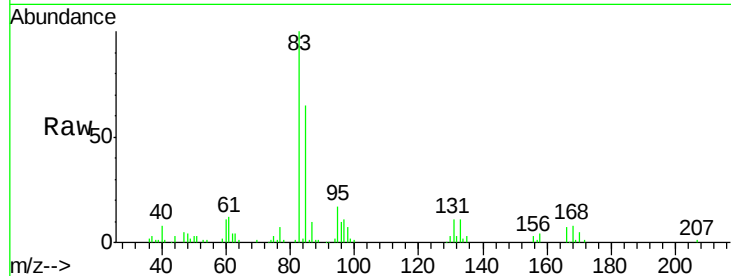
#75
 1,1,2,2-Tetrachloroethane
 Concen: 19.661 ug/l
 RT: 12.74 min Scan# 1839
 Delta R.T. 0.00 min
 Lab File: VD065617.D
 Acq: 13 Apr 2020 15:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0413BSD01

Tot Ion	83	Resp	74909
Ion Ratio	100	Lower	Upper
83	100		
131	11.7	5.7	17.0
85	64.0	31.8	95.4

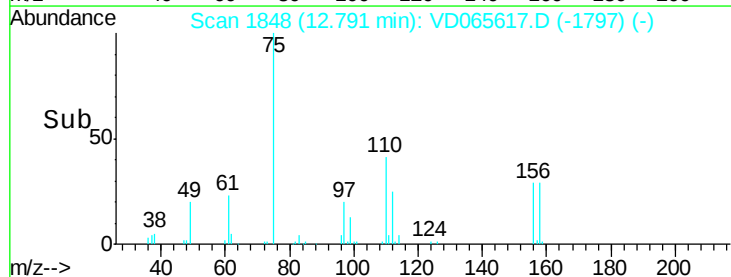
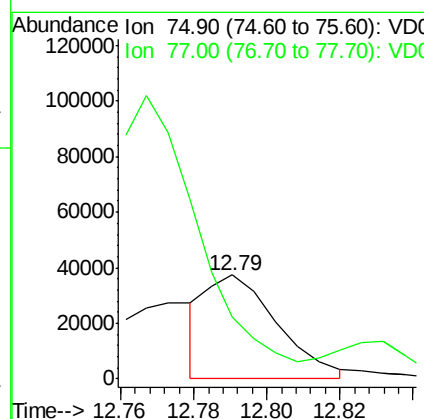
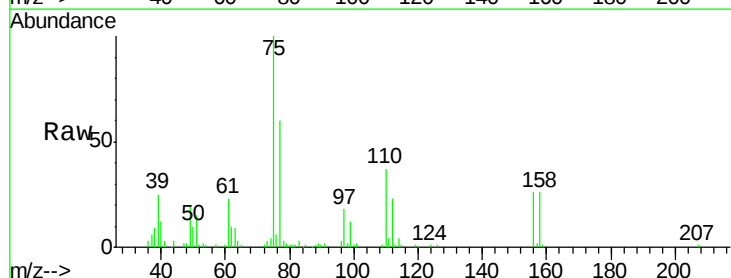
Manual Integrations
 APPROVED

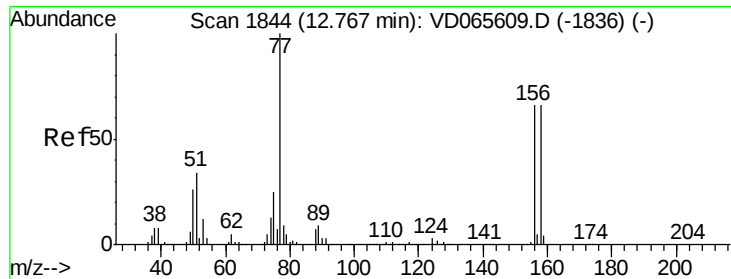
MMDadoda
 4/14/2020 10:02:34 AM



#76
 1,2,3-Trichloropropane
 Concen: 19.497 ug/l m
 RT: 12.79 min Scan# 1848
 Delta R.T. 0.00 min
 Lab File: VD065617.D
 Acq: 13 Apr 2020 15:20

Tgt Ion	75	Resp	50867
Ion Ratio	100	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.452 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.00 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

Instrument :

MSVOA_D

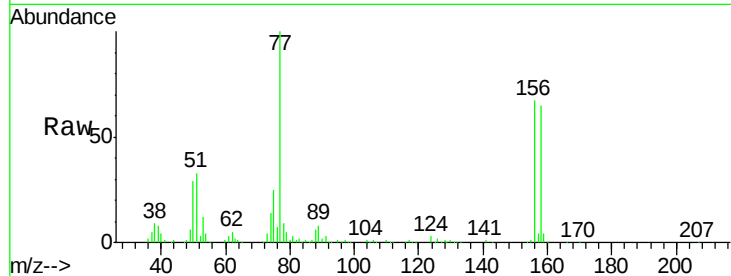
ClientSampleId :

VD0413BSD01

Tot Ion:	156	Resp:	116215
Ion Ratio	Lower	Upper	
156	100		
77	162.7	80.3	240.9
158	97.6	48.5	145.5

Manual Integrations
APPROVED

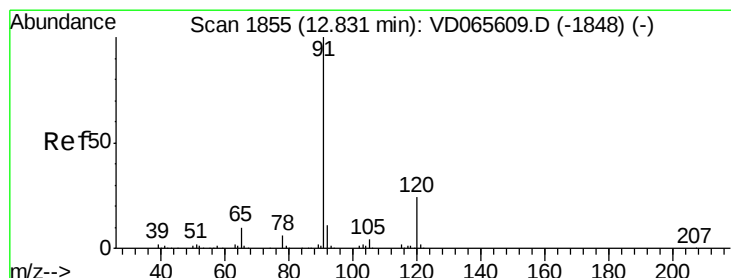
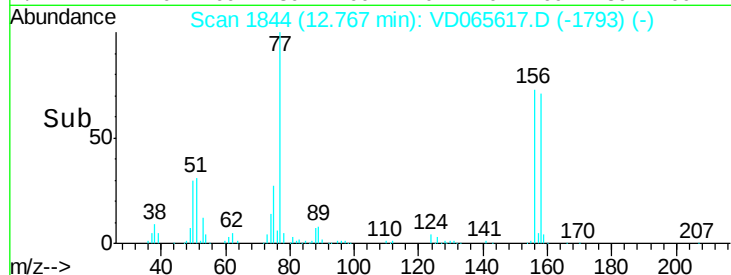
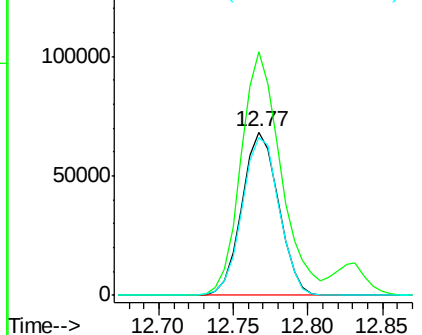
MMDadoda
4/14/2020 10:02:34 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.422 ug/l

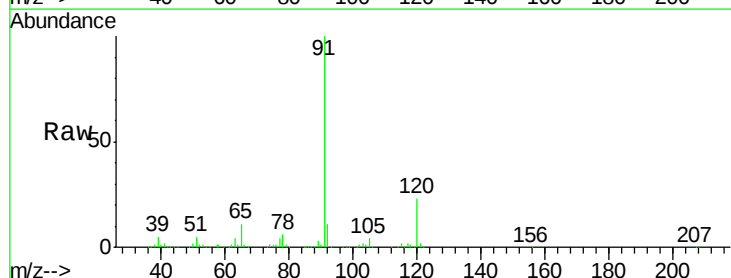
RT: 12.83 min Scan# 1854

Delta R.T. -0.01 min

Lab File: VD065617.D

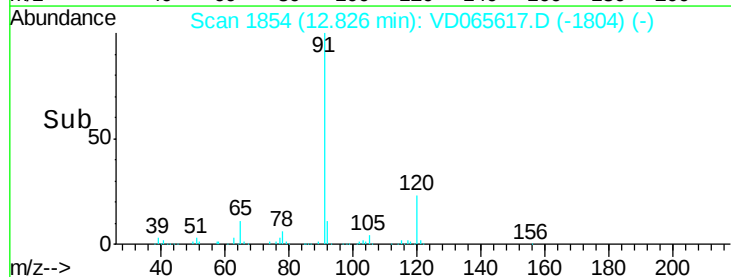
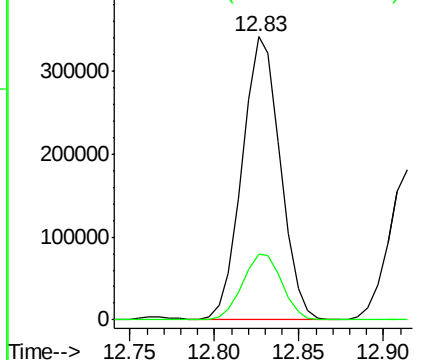
Acq: 13 Apr 2020 15:20

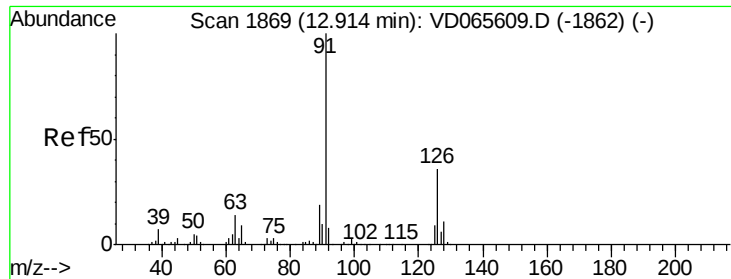
Tgt Ion:	91	Resp:	535851
Ion Ratio	Lower	Upper	
91	100		
120	24.0	11.9	35.5



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 21.194 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. 0.00 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

Instrument :

MSVOA_D

ClientSampleId :

VD0413BSD01

Tot Ion: 91 Resp: 303841

Ion Ratio Lower Upper

91 100

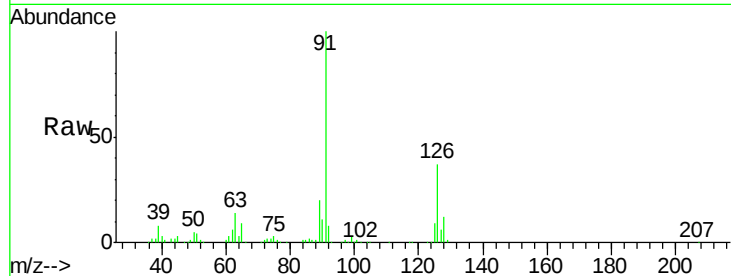
126 35.8 18.0 54.0

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VD065617.D (-1862) (-)

Ion 125.90 (125.60 to 126.60): VD065617.D (-1862) (-)

250000

200000

150000

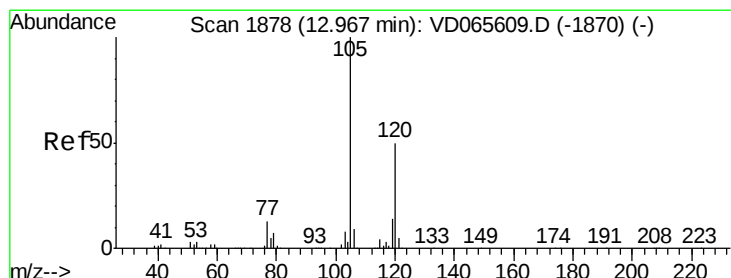
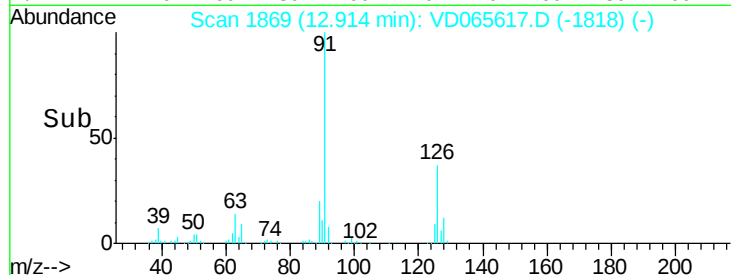
100000

50000

0

12.85 12.90 12.95

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 21.252 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD065617.D

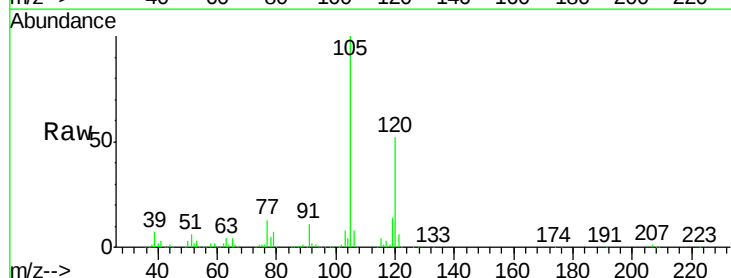
Acq: 13 Apr 2020 15:20

Tgt Ion:105 Resp: 371252

Ion Ratio Lower Upper

105 100

120 52.0 25.7 77.0



Abundance Ion 105.00 (104.70 to 105.70): VD065617.D (-1870) (-)

Ion 120.00 (119.70 to 120.70): VD065617.D (-1870) (-)

250000

200000

150000

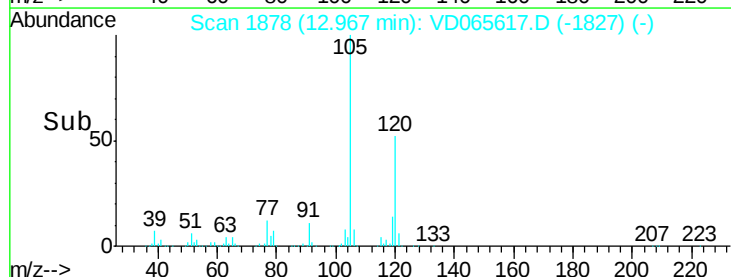
100000

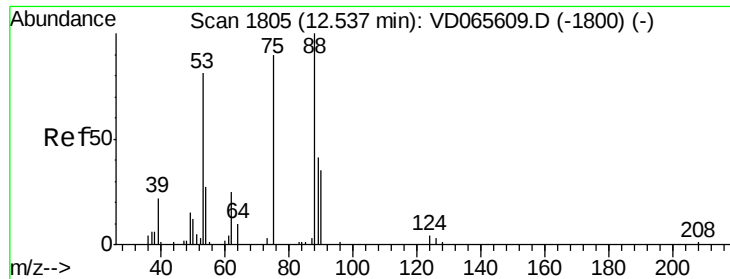
50000

0

12.90 13.00

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 20.705 ug/l

RT: 12.54 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

Instrument :

MSVOA_D

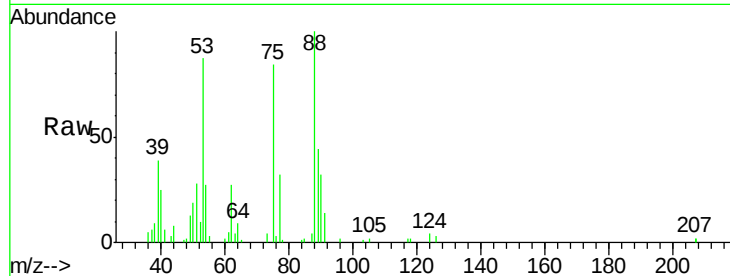
ClientSampleId :

VD0413SBS01

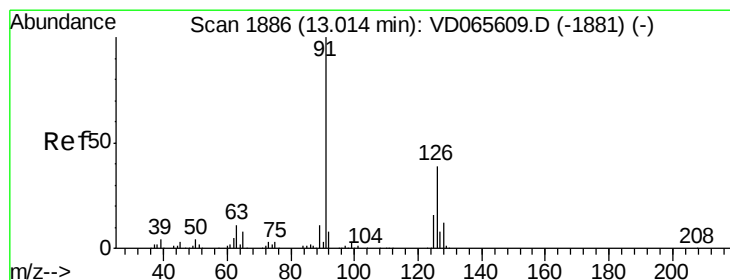
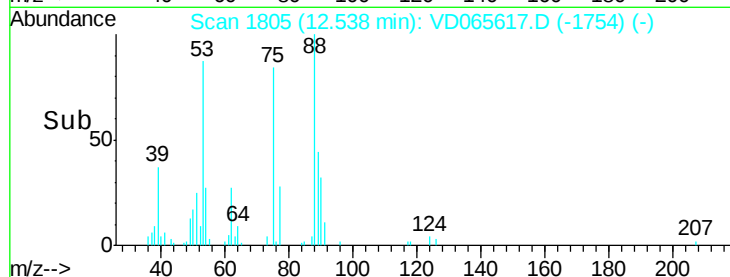
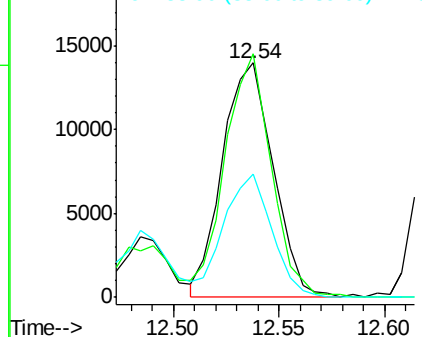
Tot Ion:	75	Resp:	23320
Ion	Ratio	Lower	Upper
75	100		
53	94.4	73.8	110.8
89	50.0	36.1	54.1

Manual Integrations
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Abundance Ion 74.90 (74.60 to 75.60): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 88.90 (88.60 to 89.60): VDC



#82

4-Chlorotoluene

Concen: 20.861 ug/l

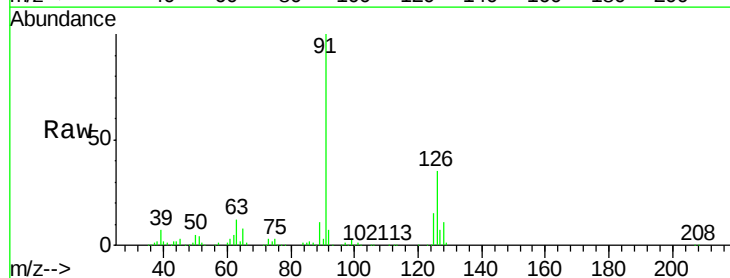
RT: 13.01 min Scan# 1886

Delta R.T. 0.00 min

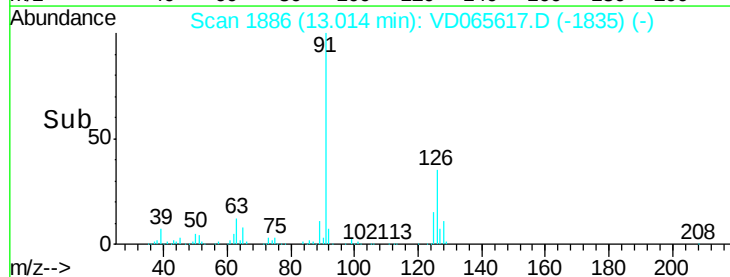
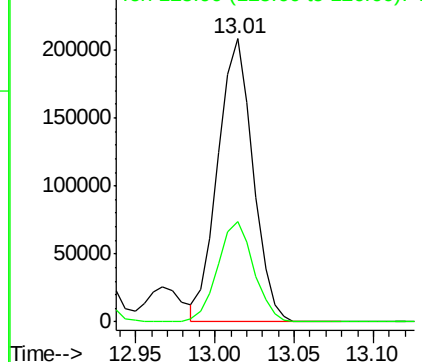
Lab File: VD065617.D

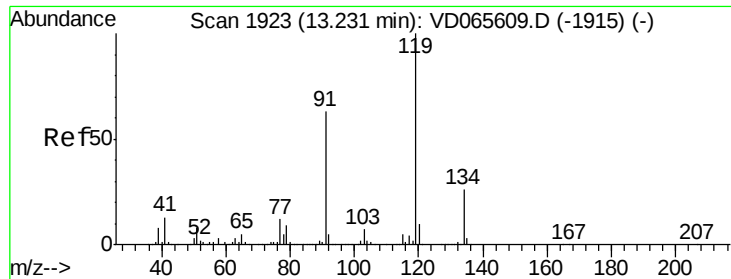
Acq: 13 Apr 2020 15:20

Tgt Ion:	91	Resp:	321901
Ion	Ratio	Lower	Upper
91	100		
126	36.2	18.1	54.4



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.90 (125.60 to 126.60): V





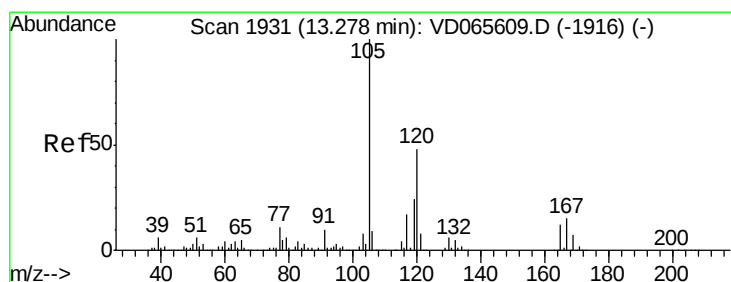
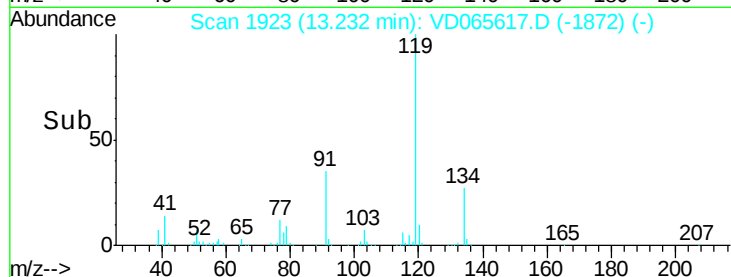
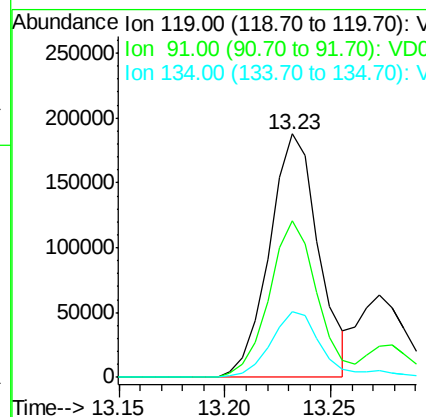
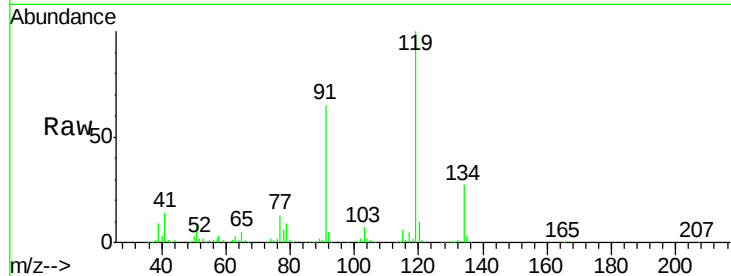
#83
tert-Butylbenzene
Concen: 20.855 ug/l
RT: 13.23 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Instrument :
MSVOA_D
ClientSampleId :
VD0413SBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	62.9	30.4	91.2
134	28.9	13.7	41.0

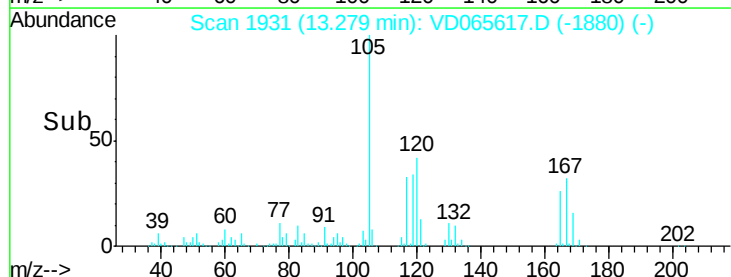
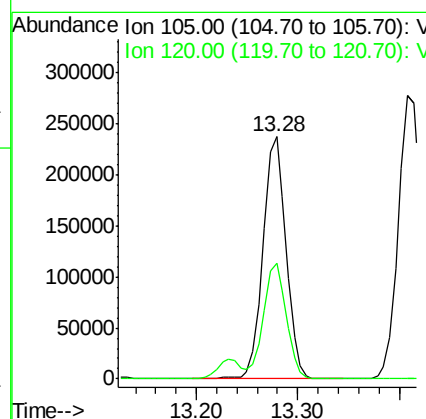
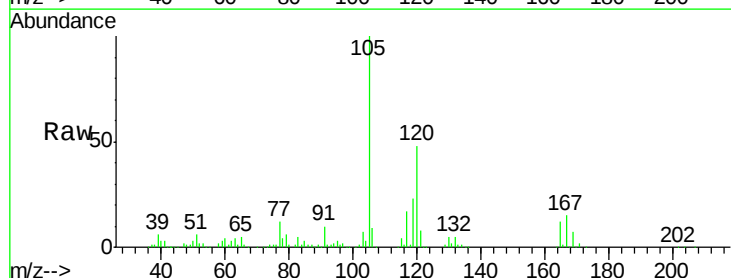
Manual Integrations
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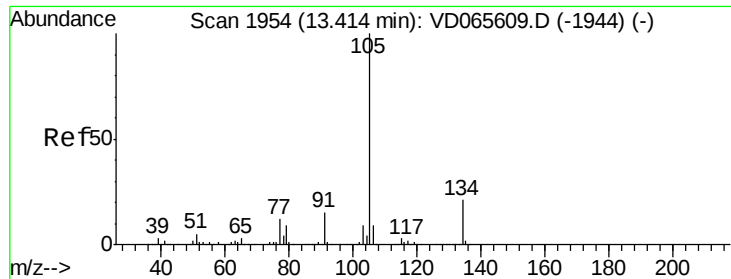
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 21.567 ug/l
RT: 13.28 min Scan# 1931
Delta R.T. 0.00 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.3	23.5	70.6





#85

sec-Butylbenzene

Concen: 21.356 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. -0.01 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

Instrument :

MSVOA_D

ClientSampleId :

VD0413SBS01

Tot Ion:105 Resp: 443892

Ion Ratio Lower Upper

105 100

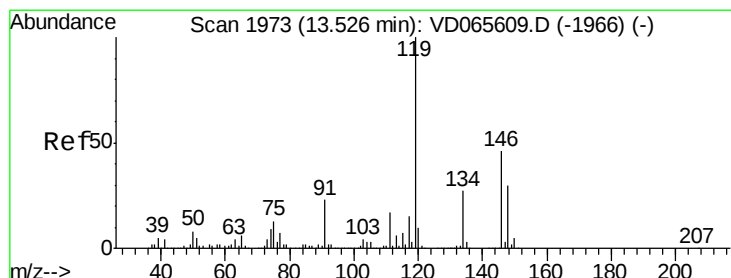
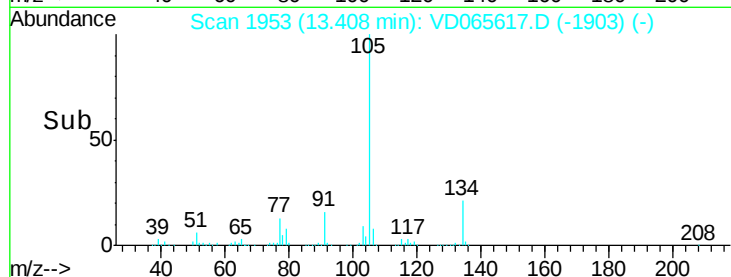
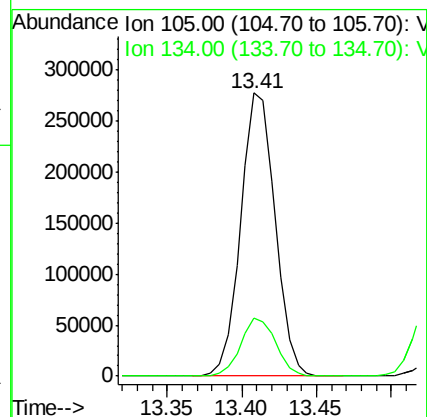
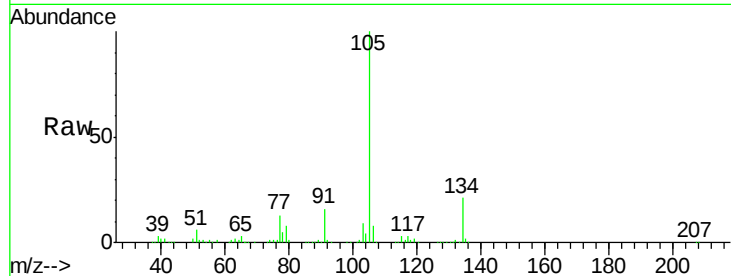
134 21.0 10.7 31.9

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 21.422 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD065617.D

Acq: 13 Apr 2020 15:20

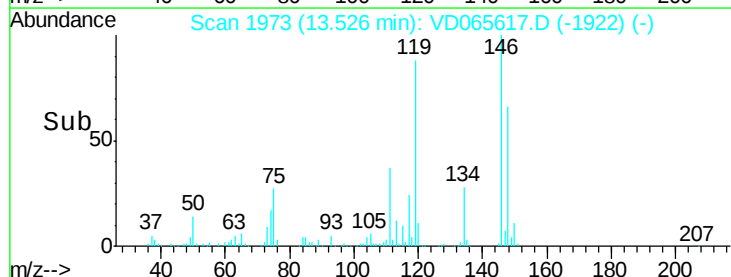
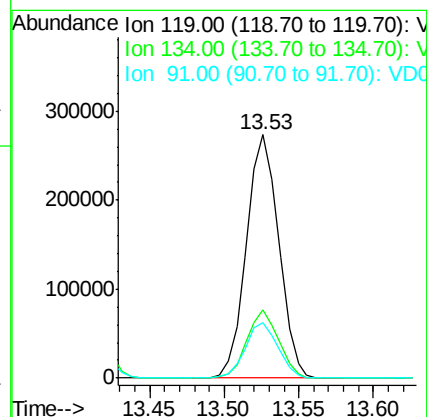
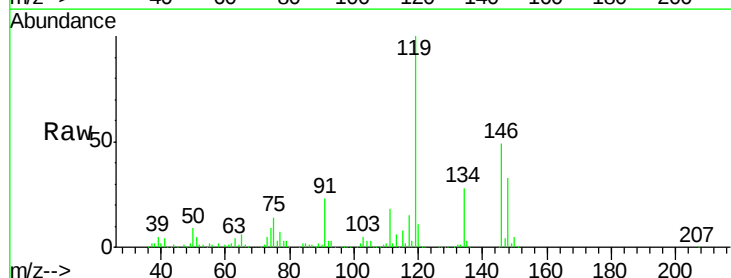
Tgt Ion:119 Resp: 410909

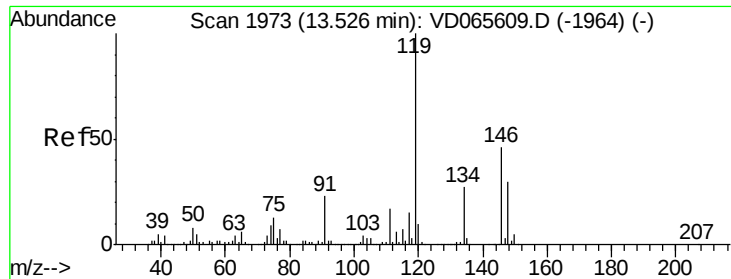
Ion Ratio Lower Upper

119 100

134 27.3 13.5 40.4

91 22.7 11.1 33.1





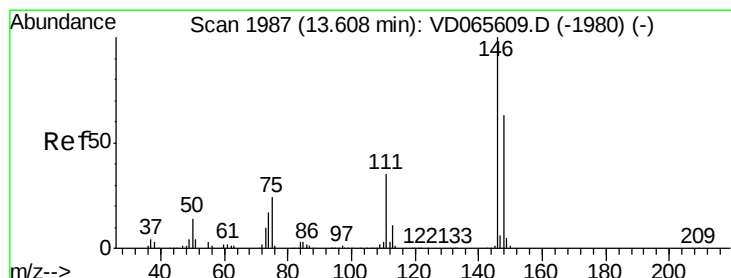
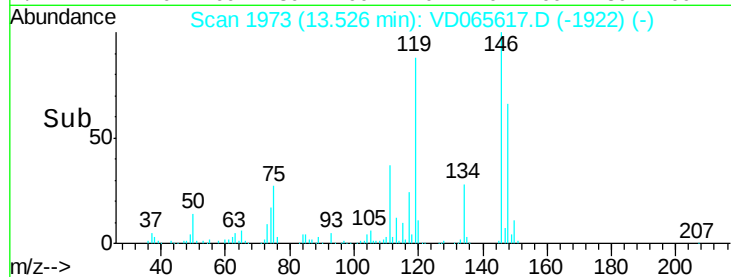
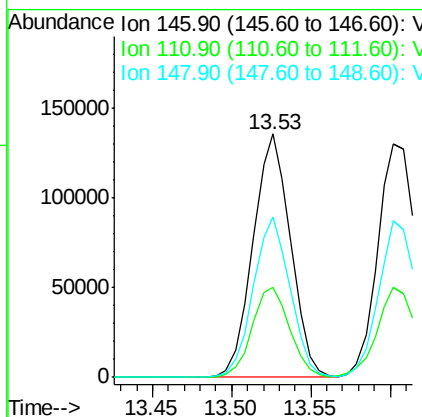
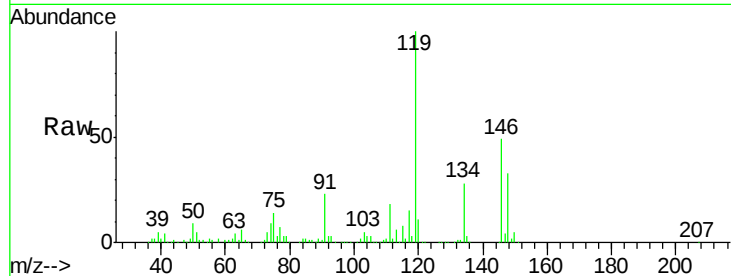
#87
 1,3-Dichlorobenzene
 Concen: 20.348 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: VD065617.D
 Acq: 13 Apr 2020 15:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0413BSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.1	18.6	55.8
148	64.5	32.1	96.5

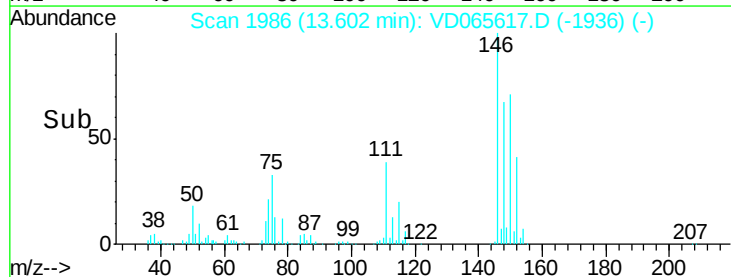
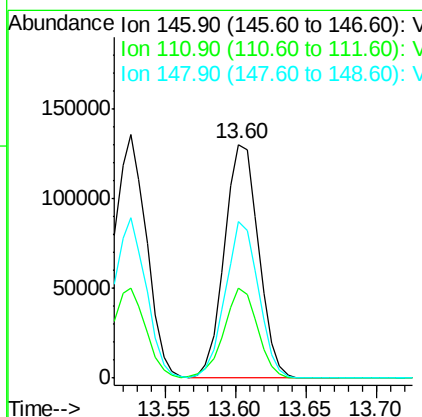
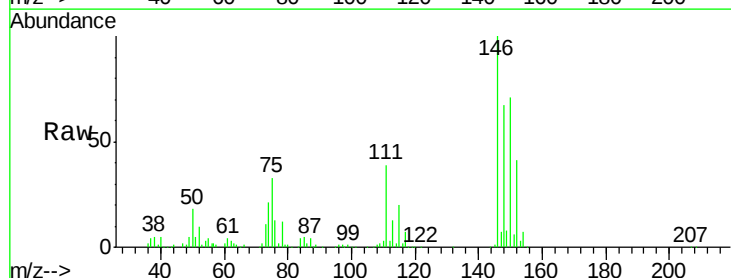
Manual Integrations
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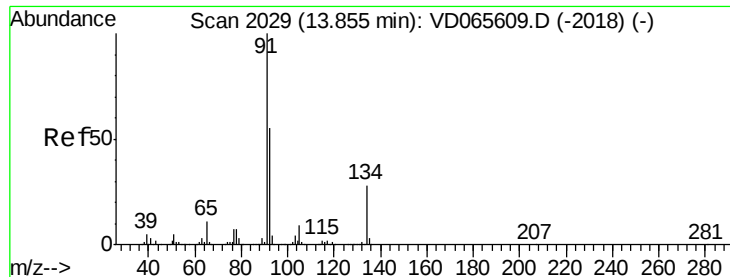
MMDadoda
 4/14/2020 10:02:34 AM



#88
 1,4-Dichlorobenzene
 Concen: 20.060 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. -0.01 min
 Lab File: VD065617.D
 Acq: 13 Apr 2020 15:20

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.9	18.0	54.0
148	64.9	31.8	95.4





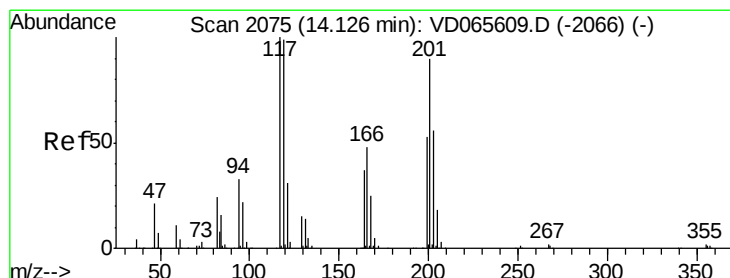
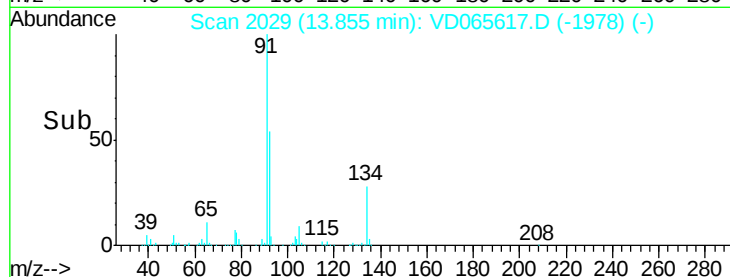
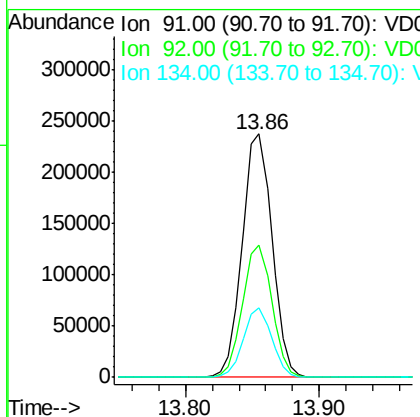
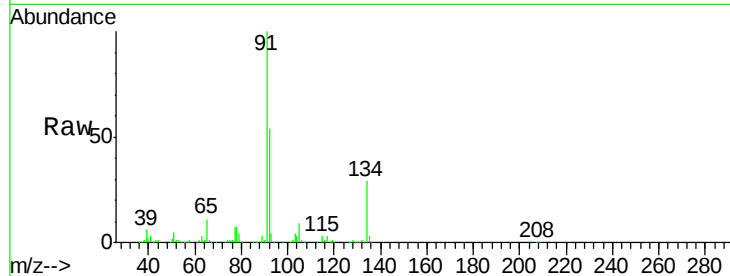
#89
n-Butylbenzene
Concen: 21.149 ug/l
RT: 13.86 min Scan# 2029
Delta R.T. 0.00 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Instrument :
MSVOA_D
ClientSampleId :
VD0413SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	366095		
92	53.4	27.2	81.6	
134	27.4	13.9	41.7	

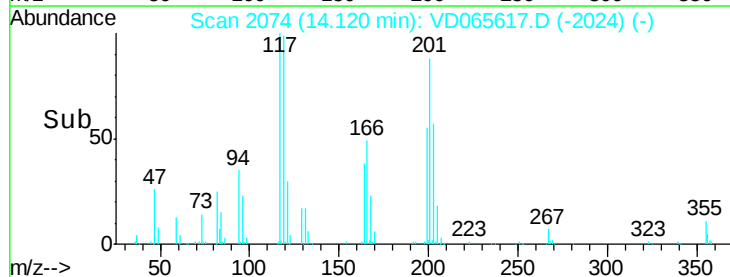
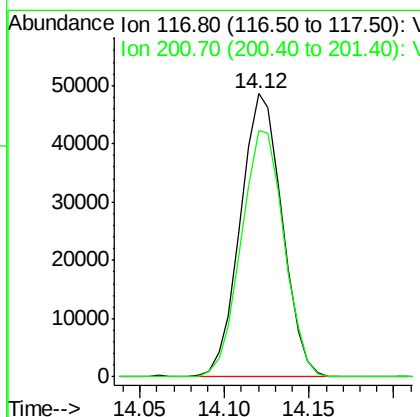
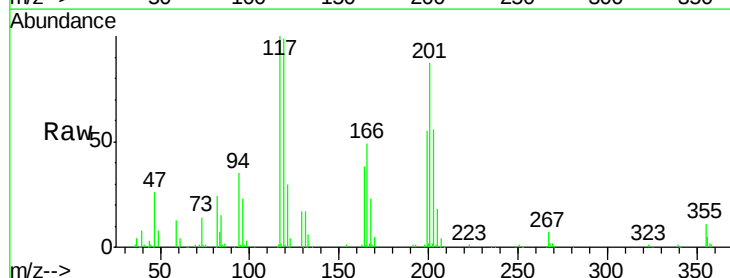
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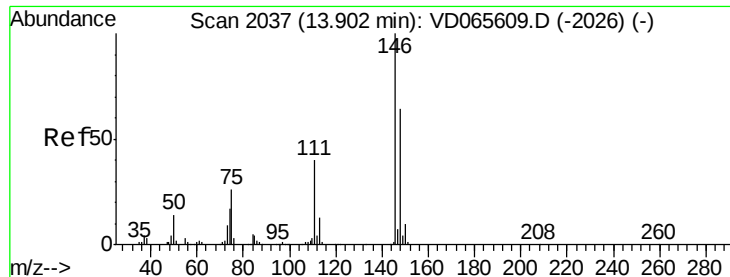
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#90
Hexachloroethane
Concen: 20.017 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. -0.01 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	83757		
201	89.1	43.9	131.7	





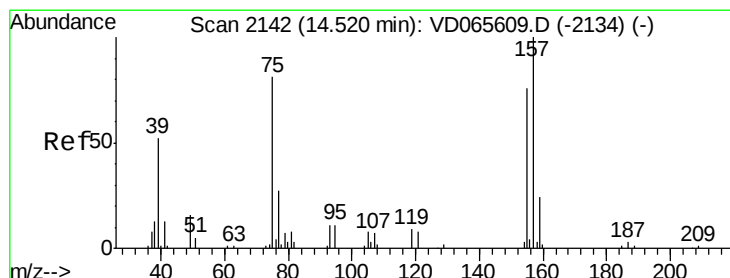
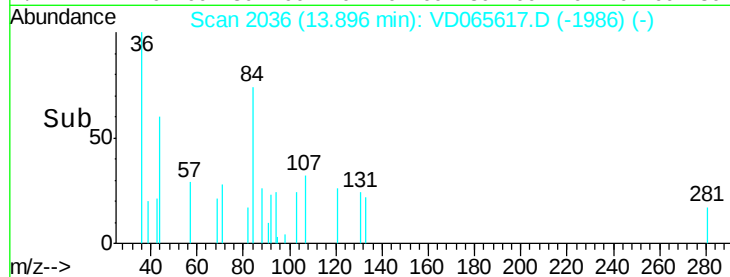
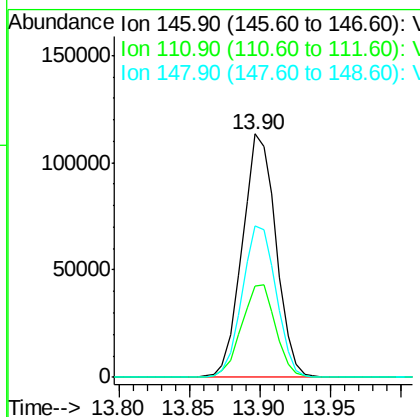
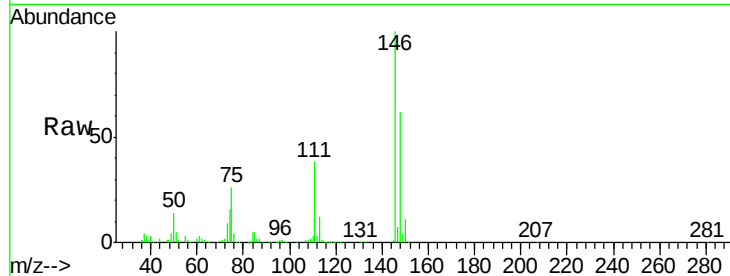
#91
 1,2-Dichlorobenzene
 Concen: 20.367 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. -0.01 min
 Lab File: VD065617.D
 Acq: 13 Apr 2020 15:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0413SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.2	19.1	57.5
148	62.9	31.8	95.4

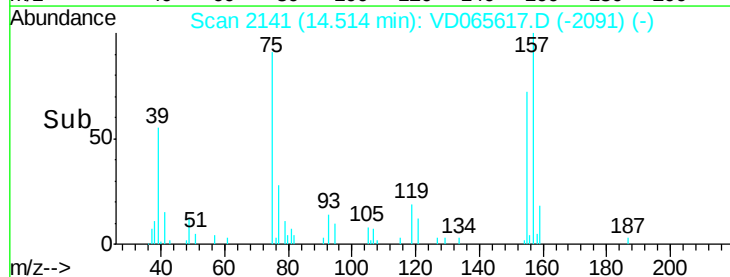
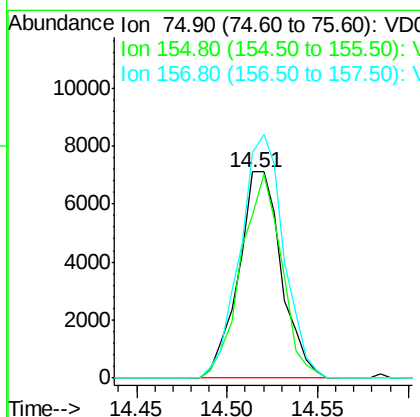
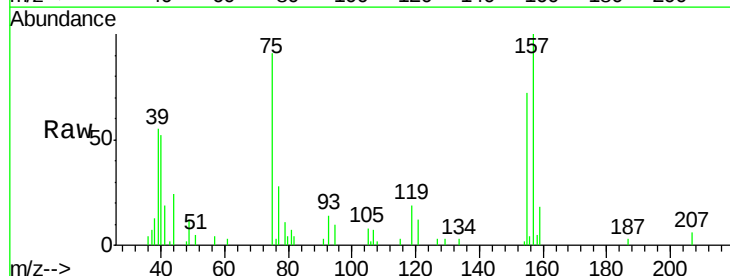
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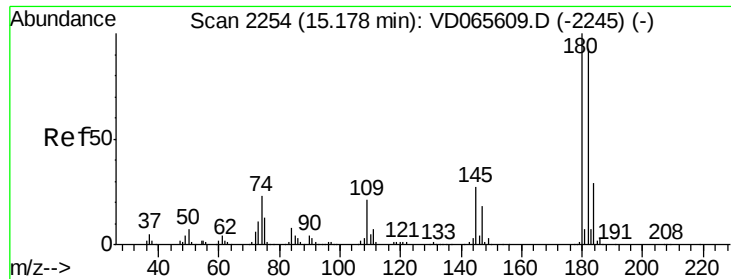
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.952 ug/l
 RT: 14.51 min Scan# 2141
 Delta R.T. -0.01 min
 Lab File: VD065617.D
 Acq: 13 Apr 2020 15:20

Tgt Ion	Ratio	Lower	Upper
75	100		
155	93.3	46.8	140.4
157	119.5	59.6	178.7





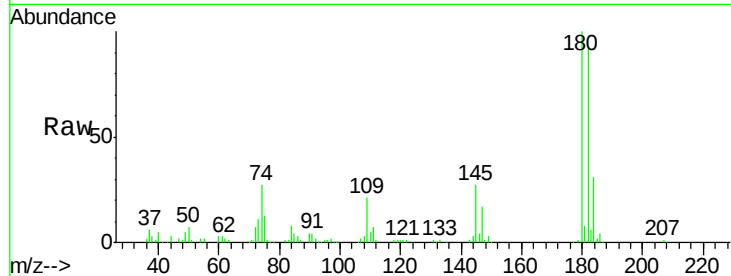
#93
 1,2,4-Trichlorobenzene
 Concen: 20.621 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. -0.01 min
 Lab File: VD065617.D
 Acq: 13 Apr 2020 15:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0413BSD01

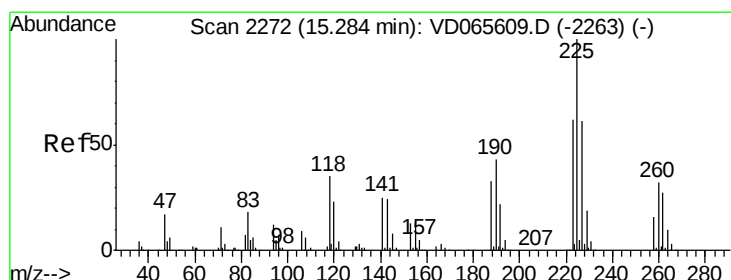
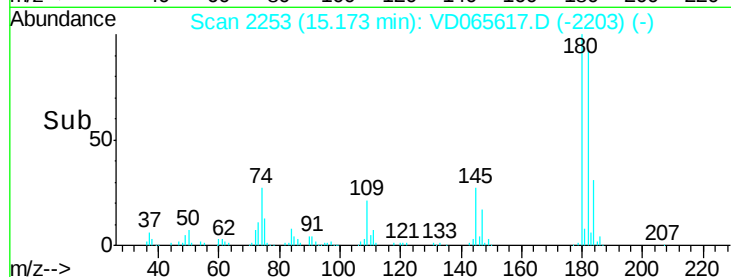
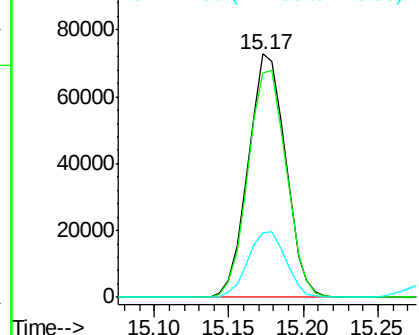
Tot Ion:	180	Resp:	126267
Ion Ratio	Lower	Upper	
180	100		
182	95.2	47.0	141.2
145	27.4	14.0	41.9

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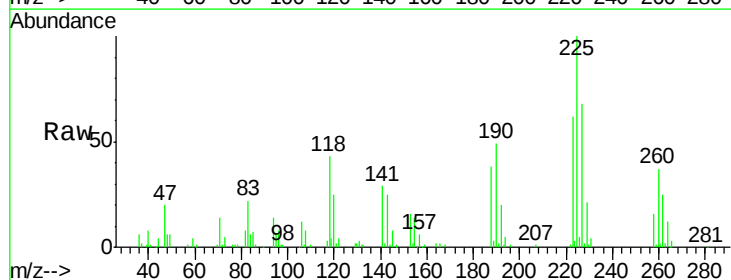


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

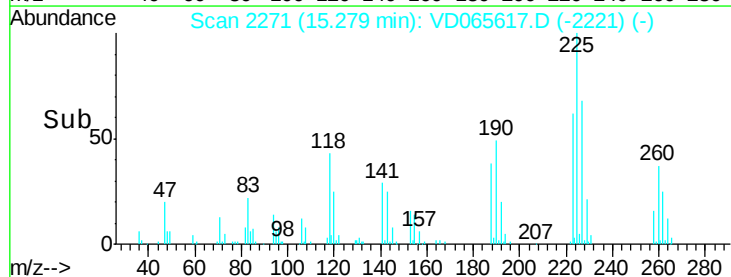
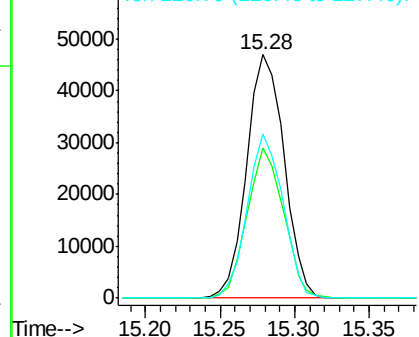


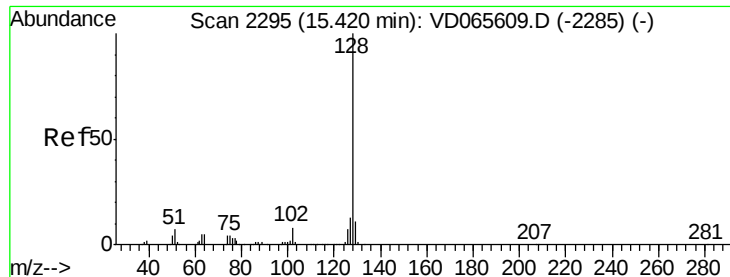
#94
 Hexachlorobutadiene
 Concen: 19.152 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. -0.01 min
 Lab File: VD065617.D
 Acq: 13 Apr 2020 15:20

Tgt Ion:	225	Resp:	81516
Ion Ratio	Lower	Upper	
225	100		
223	60.3	31.6	94.7
227	64.4	31.6	95.0



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





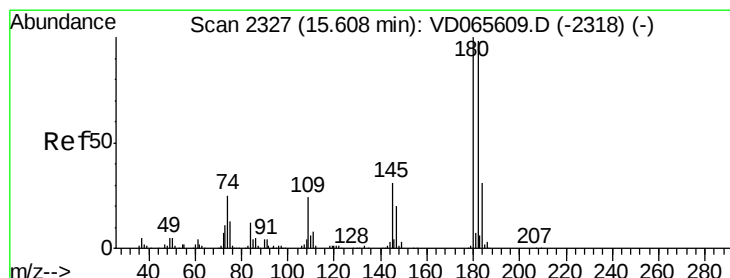
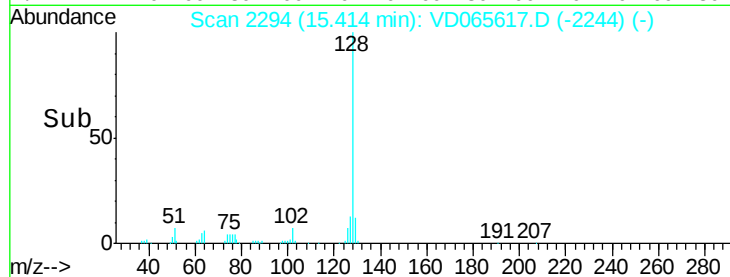
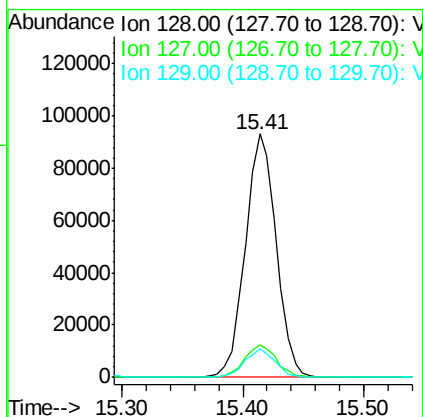
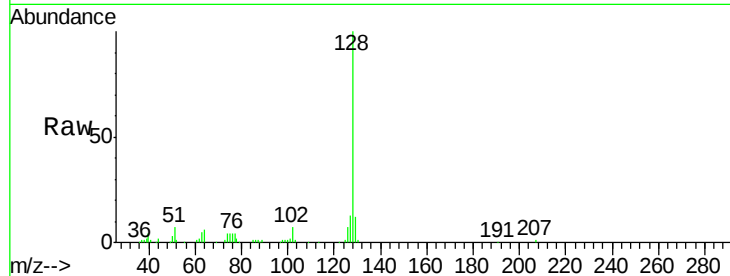
#95
Naphthalene
Concen: 18.470 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. -0.00 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Instrument :
MSVOA_D
ClientSampleId :
VD0413SBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	166327		
127	13.7	10.6	15.8	
129	11.2	8.4	12.6	

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#96
1,2,3-Trichlorobenzene
Concen: 20.976 ug/l
RT: 15.61 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VD065617.D
Acq: 13 Apr 2020 15:20

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	111183		
182	97.3	47.7	143.1	
145	30.0	15.2	45.6	

