

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042220\
 Data File : VD065665.D
 Acq On : 22 Apr 2020 14:37
 Operator : VA/SY
 Sample : VSTDIC020
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 4/23/2020 1:31:39 PM

Quant Time: Apr 23 04:06:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042220S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 23 03:30:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	230561	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	323303	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	302640	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	159847	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	39973	20.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.04%	
35) Dibromofluoromethane	7.91	113	40362	20.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.08%	
50) Toluene-d8	10.34	98	150346	20.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.34%	
62) 4-Bromofluorobenzene	12.64	95	46358	18.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	37.76%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	32860	17.693	ug/l	97
3) Chloromethane	2.21	50	38347	18.862	ug/l	97
4) Vinyl Chloride	2.35	62	43109	19.454	ug/l	94
5) Bromomethane	2.75	94	27029	22.121	ug/l	100
6) Chloroethane	2.91	64	27676	20.934	ug/l	96
7) Trichlorofluoromethane	3.27	101	64716	20.405	ug/l	97
8) Diethyl Ether	3.71	74	13194	20.448	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	4.08	101	31451	21.677	ug/l	98
10) Methyl Iodide	4.29	142	31858	16.267	ug/l	98
11) Tert butyl alcohol	5.24	59	11511	107.309	ug/l #	88
12) 1,1-Dichloroethene	4.06	96	27283	20.912	ug/l	95
13) Acrolein	3.92	56	9240	109.802	ug/l	98
14) Allyl chloride	4.70	41	59712	24.632	ug/l	93
15) Acrylonitrile	5.43	53	44940	109.062	ug/l	98
16) Acetone	4.16	43	29204	105.674	ug/l	95
17) Carbon Disulfide	4.40	76	125774	24.778	ug/l	99
18) Methyl Acetate	4.72	43	23620	26.059	ug/l	98
19) Methyl tert-butyl Ether	5.48	73	78730	20.602	ug/l	98
20) Methylene Chloride	4.96	84	48817	22.437	ug/l	98
21) trans-1,2-Dichloroethene	5.47	96	45063	20.448	ug/l	93
22) Diisopropyl ether	6.37	45	124047	21.015	ug/l	97
23) Vinyl Acetate	6.31	43	332856	105.812	ug/l	99
24) 1,1-Dichloroethane	6.27	63	77485	20.594	ug/l	99
25) 2-Butanone	7.22	43	54031	107.221	ug/l	98
26) 2,2-Dichloropropane	7.21	77	66776	20.381	ug/l	100
27) cis-1,2-Dichloroethene	7.21	96	45562	19.863	ug/l	99
28) Bromochloromethane	7.55	49	32288	21.020	ug/l	98
29) Tetrahydrofuran	7.57	42	34584	108.242	ug/l	99
30) Chloroform	7.71	83	79588	20.765	ug/l	100
31) Cyclohexane	7.98	56	69242	19.316	ug/l #	93
32) 1,1,1-Trichloroethane	7.91	97	71529	20.657	ug/l	98
36) 1,1-Dichloropropene	8.11	75	62564	20.452	ug/l	98
37) Ethyl Acetate	7.30	43	25767	21.417	ug/l	98
38) Carbon Tetrachloride	8.10	117	66021	20.232	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	67632	19.150	ug/l	99
40) Benzene	8.35	78	174263	19.901	ug/l	96
41) Methacrylonitrile	7.53	41	13859m	21.847	ug/l	
42) 1,2-Dichloroethane	8.43	62	50398	21.087	ug/l	100
43) Isopropyl Acetate	8.46	43	44670	20.527	ug/l	97
44) Trichloroethene	9.11	130	49357	20.119	ug/l	95
45) 1,2-Dichloropropane	9.39	63	43864	20.492	ug/l	99
46) Dibromomethane	9.48	93	23258	21.002	ug/l	96
47) Bromodichloromethane	9.67	83	60106	20.438	ug/l	97
48) Methyl methacrylate	9.46	41	21086	20.274	ug/l	98
49) 1,4-Dioxane	9.47	88	5278	432.028	ug/l	95
51) 4-Methyl-2-Pentanone	10.23	43	120514	109.329	ug/l	98
52) Toluene	10.41	92	110700	20.484	ug/l	100
53) t-1,3-Dichloropropene	10.62	75	54538	20.433	ug/l	99
54) cis-1,3-Dichloropropene	10.09	75	66255	20.296	ug/l	100
55) 1,1,2-Trichloroethane	10.80	97	33393	21.548	ug/l	97
56) Ethyl methacrylate	10.67	69	33072	19.887	ug/l	98
57) 1,3-Dichloropropane	10.95	76	55310	20.958	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.94	63	91185	103.719	ug/l	100
59) 2-Hexanone	10.99	43	78768	105.319	ug/l	100
60) Dibromochloromethane	11.14	129	43875	21.312	ug/l	100
61) 1,2-Dibromoethane	11.25	107	31885	21.268	ug/l	97
64) Tetrachloroethene	10.88	164	42244	20.173	ug/l	97
65) Chlorobenzene	11.67	112	120673	20.765	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.75	131	45479	20.478	ug/l	99
67) Ethyl Benzene	11.75	91	201927	20.334	ug/l	100
68) m/p-Xylenes	11.86	106	161281	41.986	ug/l	99
69) o-Xylene	12.18	106	68413	20.444	ug/l	100
70) Styrene	12.20	104	123676	20.857	ug/l	99
71) Bromoform	12.37	173	27294	21.943	ug/l #	98
73) Isopropylbenzene	12.48	105	184570	19.806	ug/l	100
74) N-amyl acetate	12.30	43	40754	20.758	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.74	83	34757	20.604	ug/l	100
76) 1,2,3-Trichloropropane	12.79	75	24072m	19.966	ug/l	
77) Bromobenzene	12.77	156	50561	20.499	ug/l	96
78) n-propylbenzene	12.83	91	228839	20.294	ug/l	99
79) 2-Chlorotoluene	12.91	91	130030	20.270	ug/l	100
80) 1,3,5-Trimethylbenzene	12.97	105	162237	20.610	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.53	75	11479	20.333	ug/l	96
82) 4-Chlorotoluene	13.01	91	142522	20.636	ug/l	100
83) tert-Butylbenzene	13.23	119	129933	19.706	ug/l	98
84) 1,2,4-Trimethylbenzene	13.28	105	162233	20.691	ug/l	98
85) sec-Butylbenzene	13.41	105	188798	19.994	ug/l	100
86) p-Isopropyltoluene	13.53	119	176384	19.883	ug/l	99
87) 1,3-Dichlorobenzene	13.53	146	100772	20.769	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	98715	20.471	ug/l	97
89) n-Butylbenzene	13.86	91	144111	17.926	ug/l	99
90) Hexachloroethane	14.12	117	37229	19.954	ug/l	98
91) 1,2-Dichlorobenzene	13.90	146	81786	19.712	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.52	75	5546	21.675	ug/l	90

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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	56675	19.923	ug/l	99
94) Hexachlorobutadiene	15.28	225	38849	19.820	ug/l	99
95) Naphthalene	15.41	128	82807	19.850	ug/l	99
96) 1,2,3-Trichlorobenzene	15.61	180	50887	20.345	ug/l	99

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

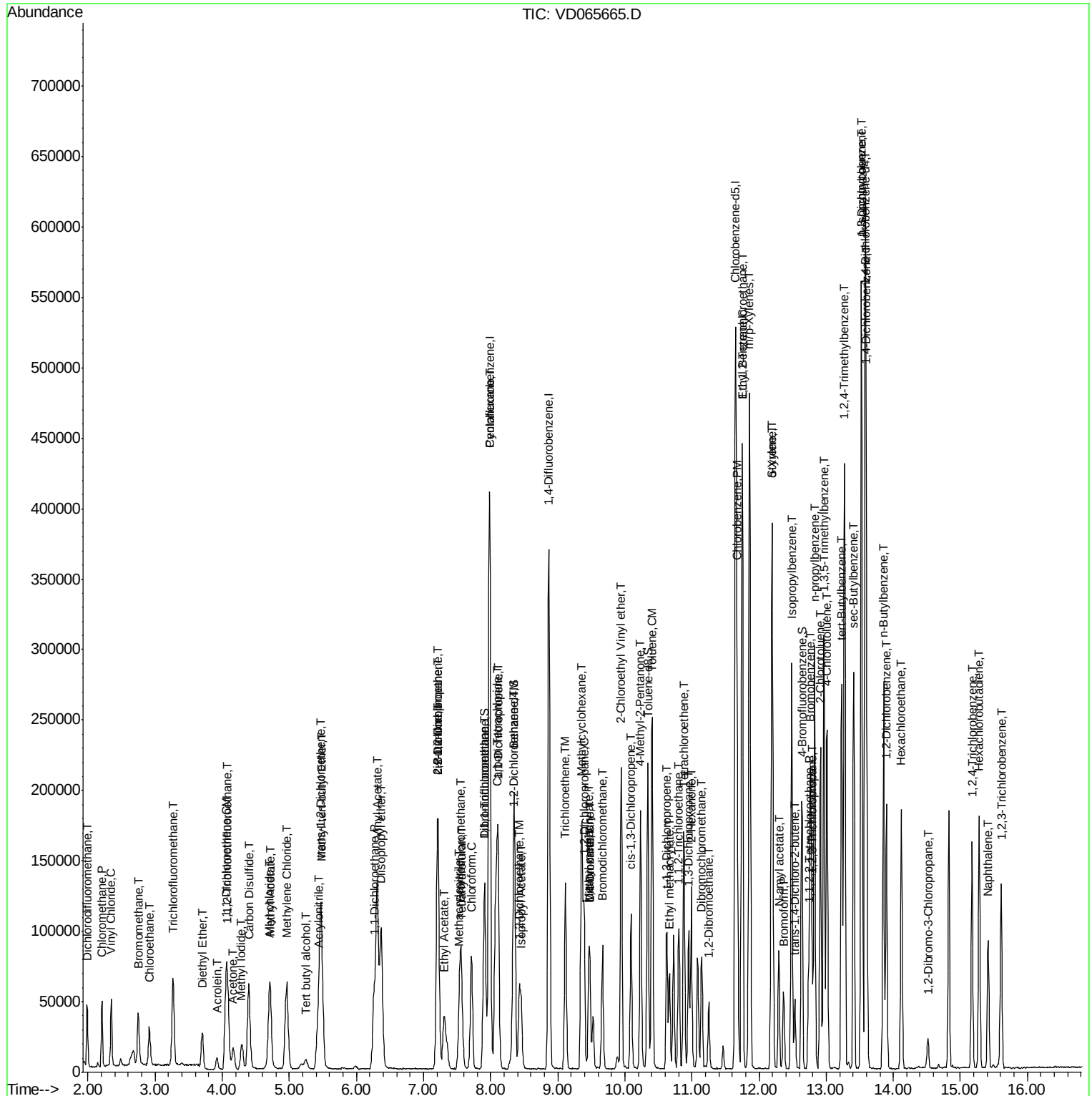
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD042220\
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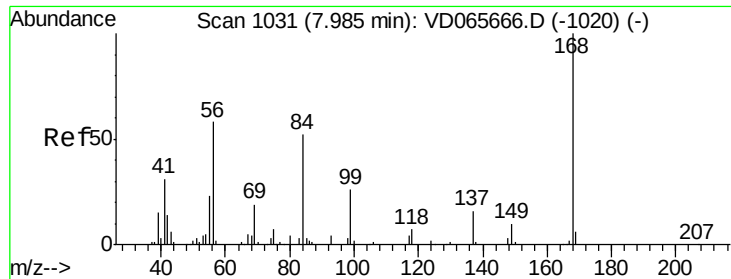
Instrument :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065665.D

Acq: 22 Apr 2020 14:37

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 230561

Ion Ratio Lower Upper

168 100

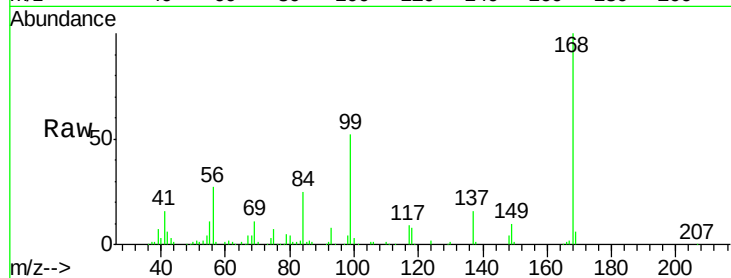
99 51.8 39.0 58.6

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

120000

100000

80000

60000

40000

20000

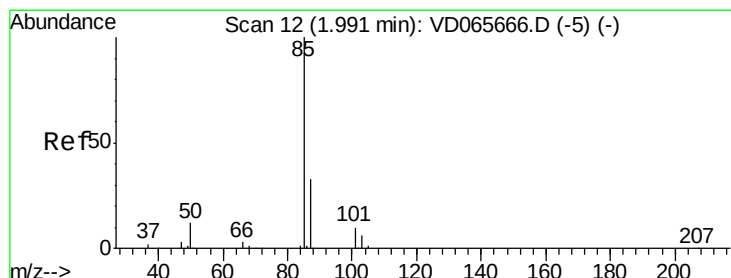
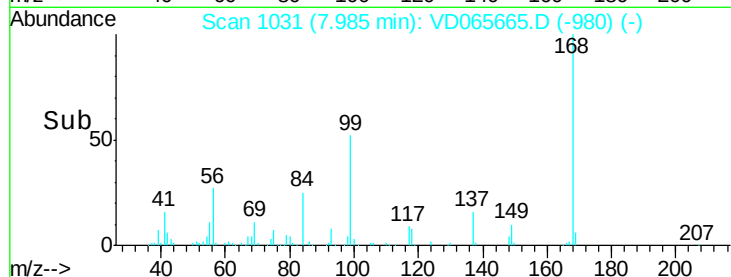
0

7.90

8.00

8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 17.693 ug/l

RT: 1.99 min Scan# 11

Delta R.T. -0.01 min

Lab File: VD065665.D

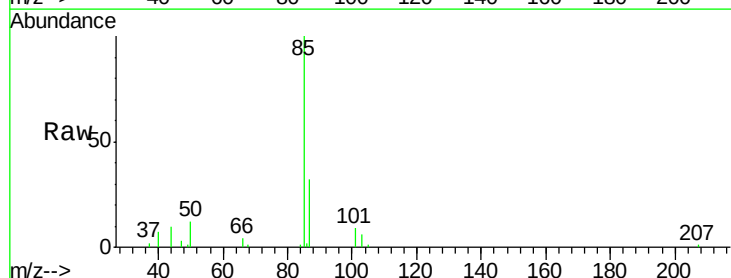
Acq: 22 Apr 2020 14:37

Tgt Ion: 85 Resp: 32860

Ion Ratio Lower Upper

85 100

87 31.6 16.7 50.0



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

30000

25000

20000

15000

10000

5000

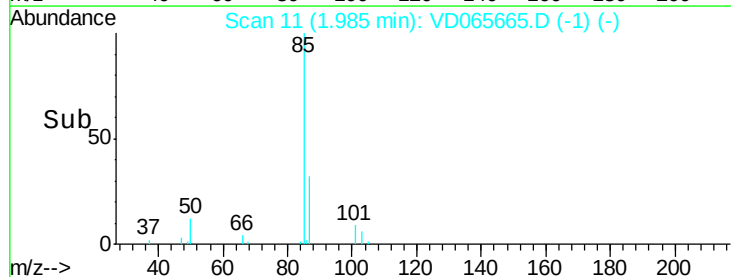
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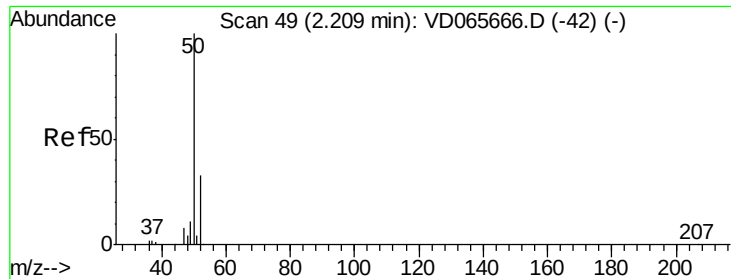
1.95

2.00

2.05

Time-->





#3

Chloromethane

Concen: 18.862 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065665.D

Acq: 22 Apr 2020 14:37

Tot Ion: 50 Resp: 38347

Ion Ratio Lower Upper

50 100

52 31.4 26.6 39.8

Instrument :

MSVOA_D

ClientSampleId :

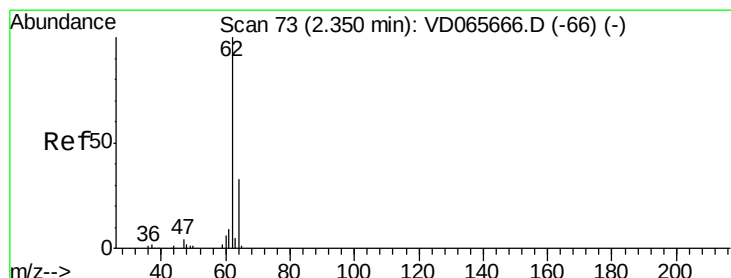
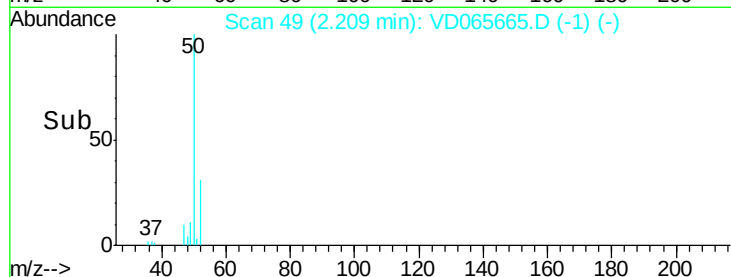
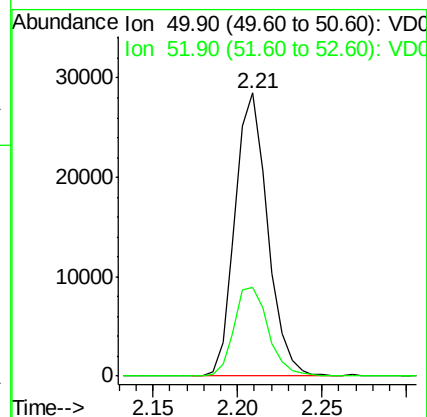
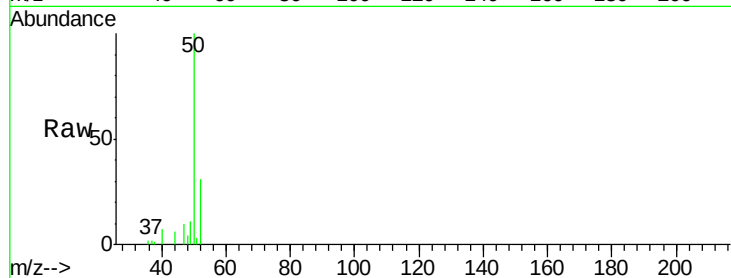
VSTDIC020

Manual Integrations

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#4

Vinyl Chloride

Concen: 19.454 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD065665.D

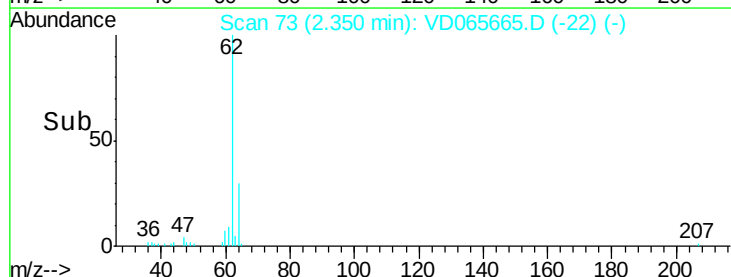
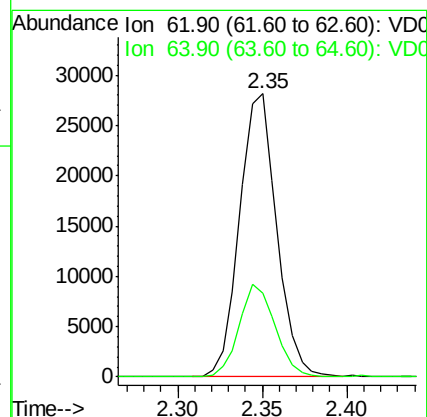
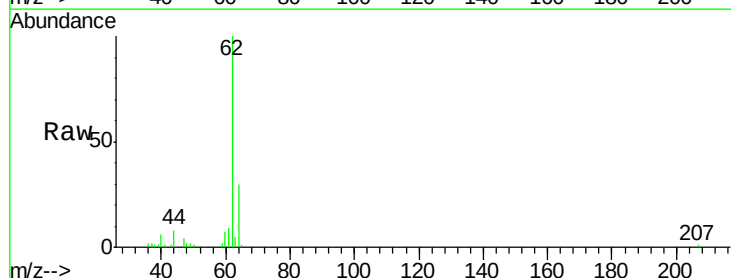
Acq: 22 Apr 2020 14:37

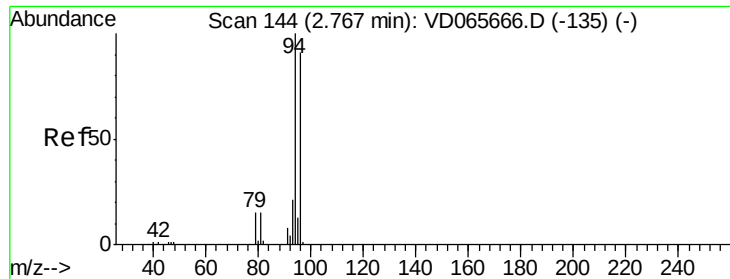
Tgt Ion: 62 Resp: 43109

Ion Ratio Lower Upper

62 100

64 29.6 26.4 39.6





#5

Bromomethane

Concen: 22.121 ug/l

RT: 2.75 min Scan# 141

Delta R.T. -0.02 min

Lab File: VD065665.D

Acq: 22 Apr 2020 14:37

Instrument :

MSVOA_D

ClientSampleId :

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Tot Ion: 94 Resp: 27029

Ion Ratio Lower Upper

94 100

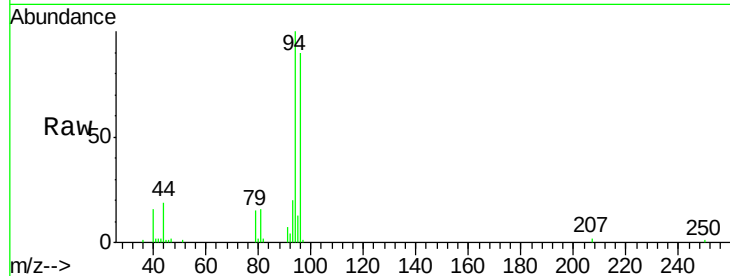
96 90.1 72.4 108.6

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.75

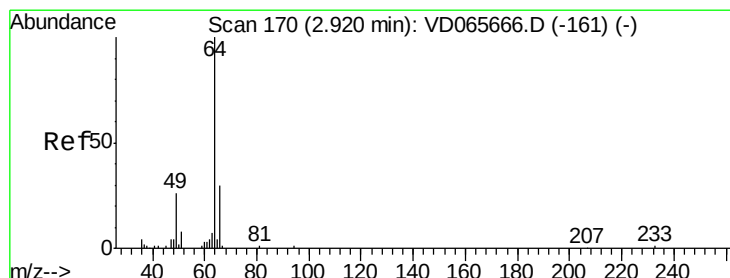
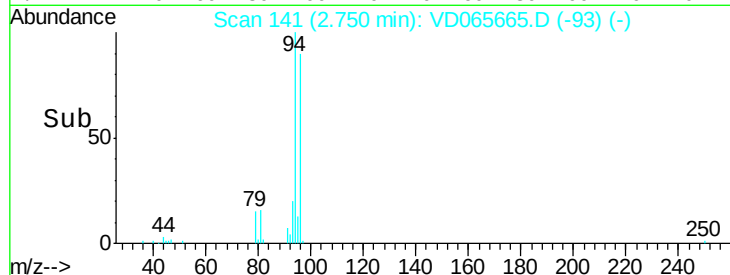
15000

10000

5000

0

Time-->



#6

Chloroethane

Concen: 20.934 ug/l

RT: 2.91 min Scan# 169

Delta R.T. -0.01 min

Lab File: VD065665.D

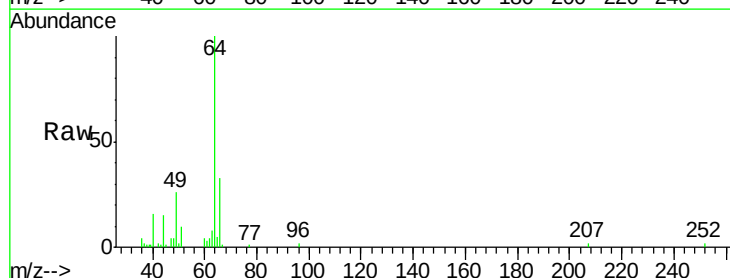
Acq: 22 Apr 2020 14:37

Tgt Ion: 64 Resp: 27676

Ion Ratio Lower Upper

64 100

66 32.7 24.2 36.4



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC

2.91

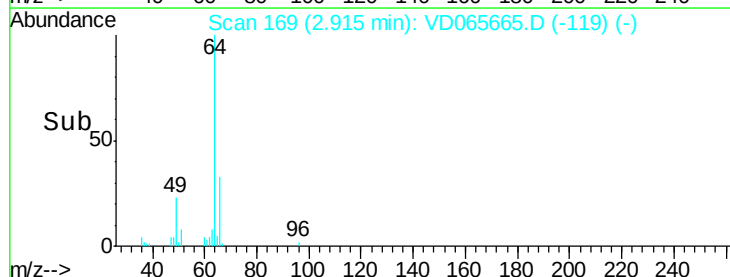
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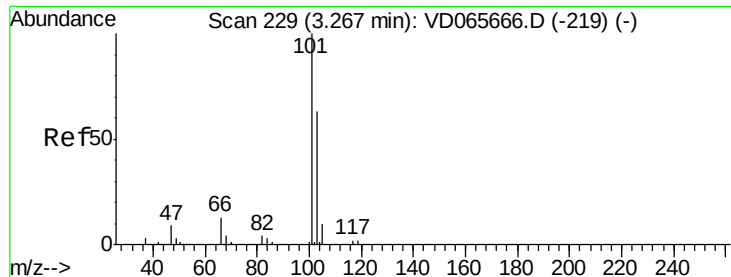
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5000

0

Time-->





#7

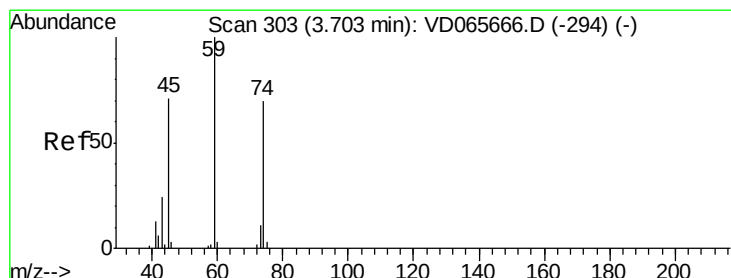
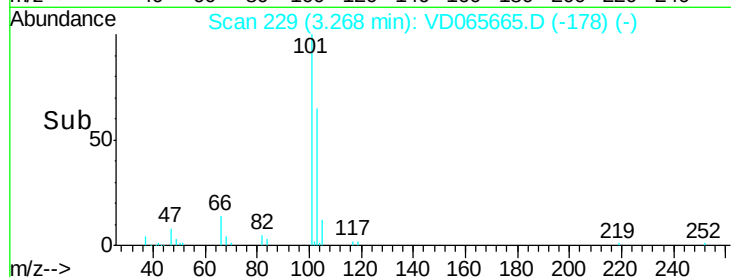
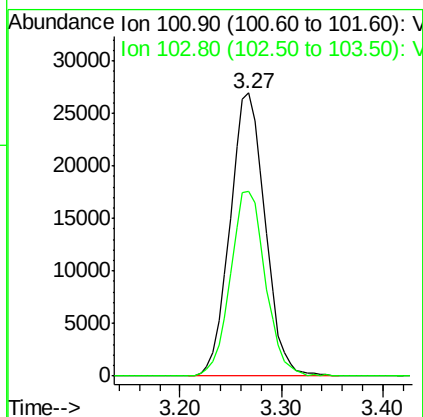
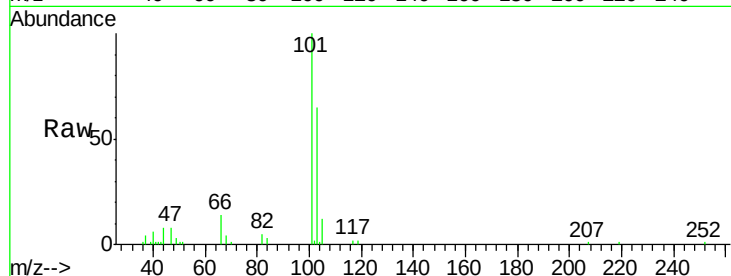
Trichlorofluoromethane
 Concen: 20.405 ug/l
 RT: 3.27 min Scan# 229
 Delta R.T. 0.00 min
 Lab File: VD065665.D
 Acq: 22 Apr 2020 14:37

Instrument :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	65.3	50.2	75.2

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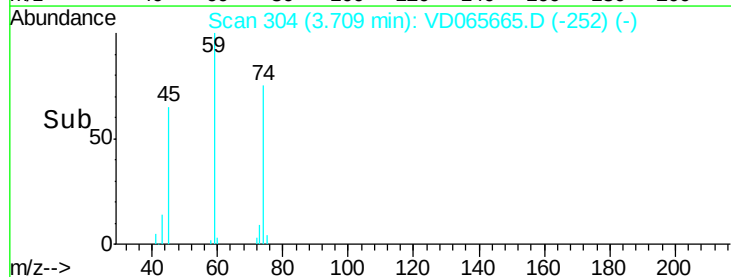
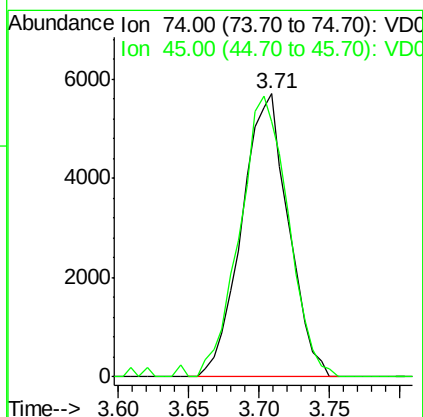
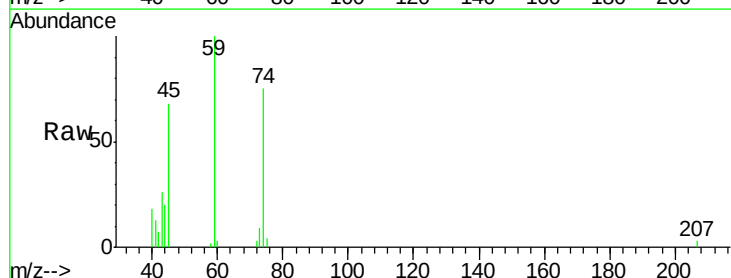
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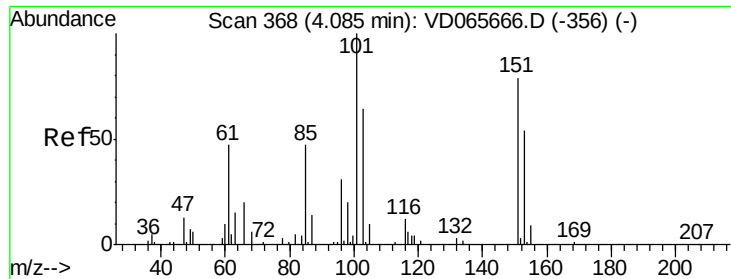


#8

Diethyl Ether
 Concen: 20.448 ug/l
 RT: 3.71 min Scan# 304
 Delta R.T. 0.01 min
 Lab File: VD065665.D
 Acq: 22 Apr 2020 14:37

Tgt Ion	Ratio	Lower	Upper
74	100		
45	103.4	51.0	153.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.677 ug/l

RT: 4.08 min Scan# 367

Delta R.T. -0.01 min

Lab File: VD065665.D

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MSVOA_D

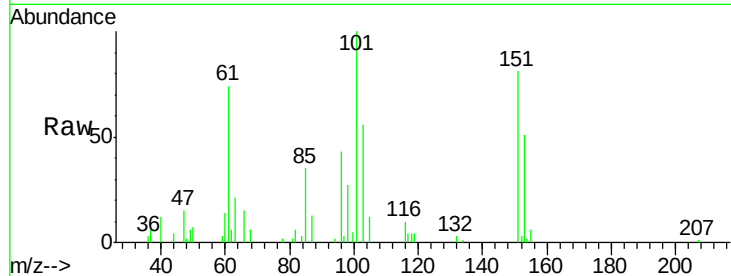
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	31451
Ion Ratio	Lower	Upper	
101	100		
85	43.2	35.6	53.4
151	79.4	65.4	98.0

Manual Integrations
APPROVED

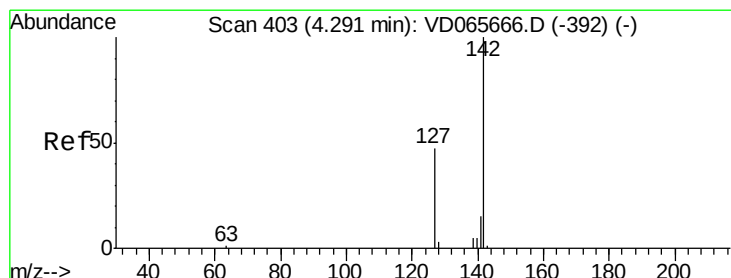
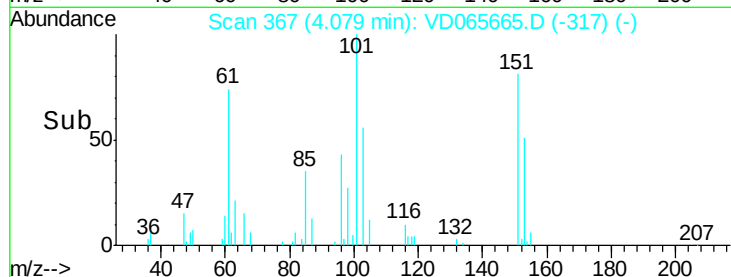
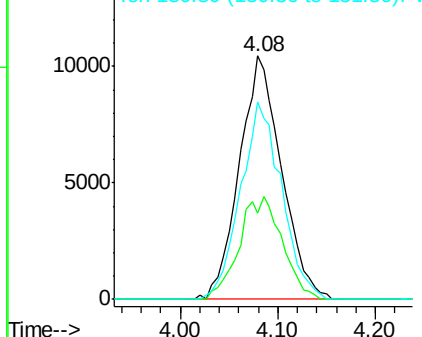
MMDadoda
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Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 16.267 ug/l

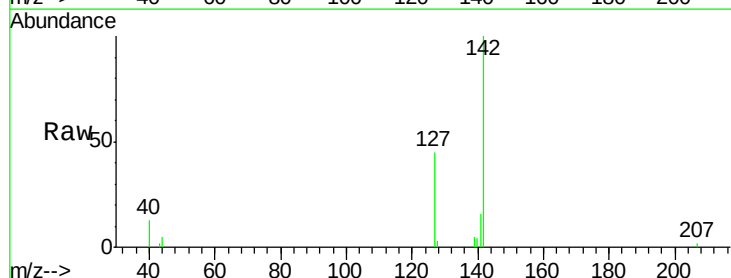
RT: 4.29 min Scan# 402

Delta R.T. -0.01 min

Lab File: VD065665.D

Acq: 22 Apr 2020 14:37

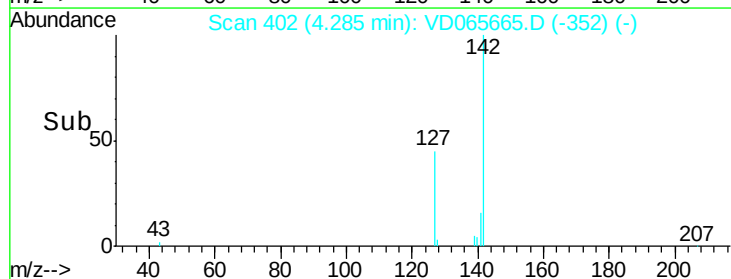
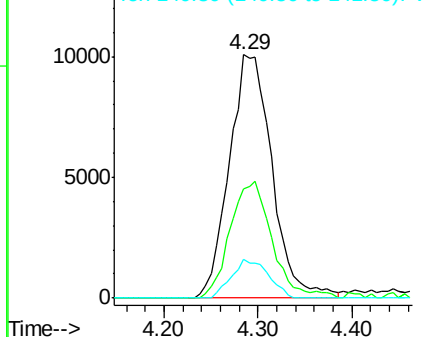
Tgt Ion:	142	Resp:	31858
Ion Ratio	Lower	Upper	
142	100		
127	46.7	38.2	57.2
141	13.7	12.1	18.1

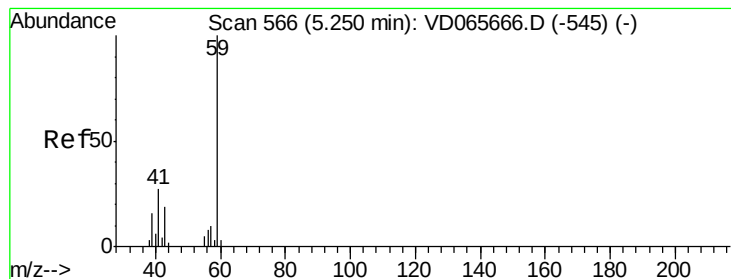


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

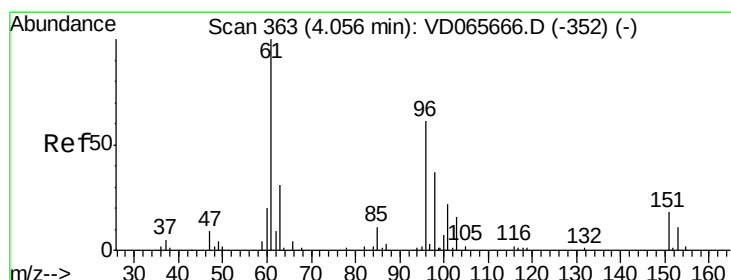
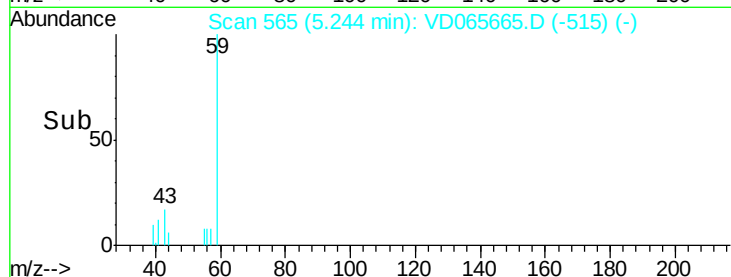
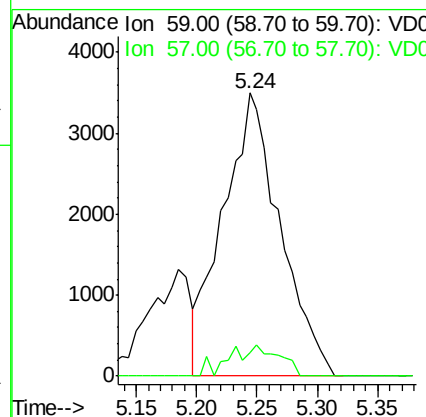
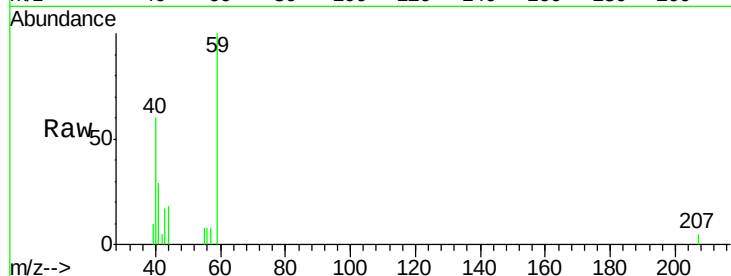
Tert butyl alcohol
Concen: 107.309 ug/l
RT: 5.24 min Scan# 565
Delta R.T. -0.01 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
59	100		
57	5.0	7.5	11.3#

Manual Integrations
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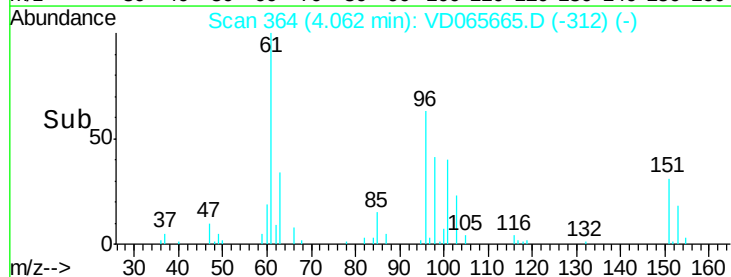
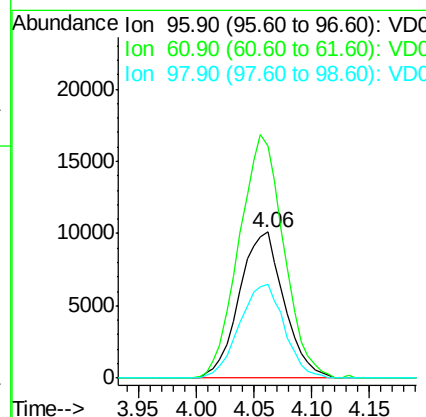
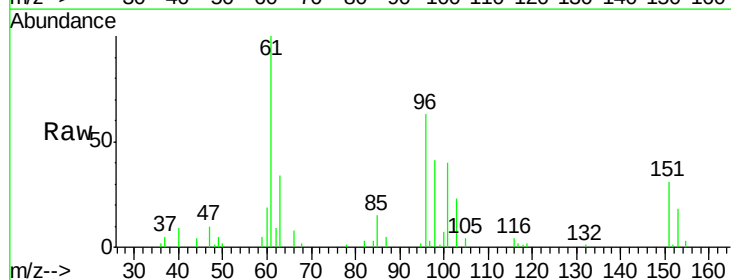
MMDadoda
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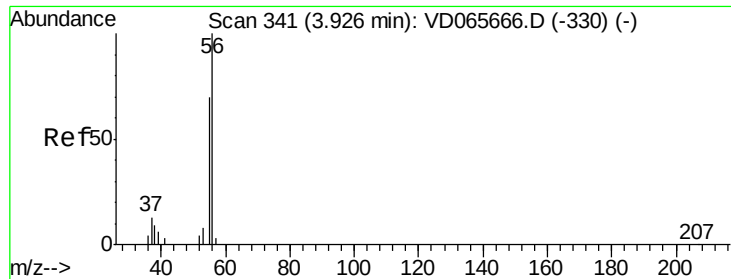


#12

1,1-Dichloroethene
Concen: 20.912 ug/l
RT: 4.06 min Scan# 364
Delta R.T. 0.01 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Tgt Ion	Ratio	Lower	Upper
96	100		
61	158.4	131.8	197.6
98	64.3	48.2	72.4





#13

Acrolein

Concen: 109.802 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD065665.D

Acq: 22 Apr 2020 14:37

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 9240

Ion Ratio Lower Upper

56 100

55 73.1

57.3

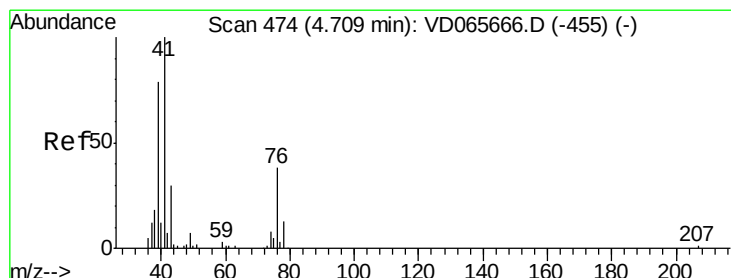
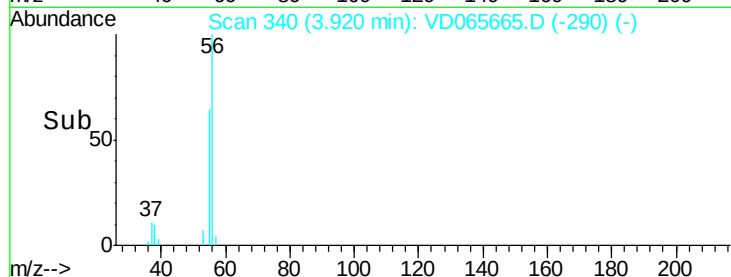
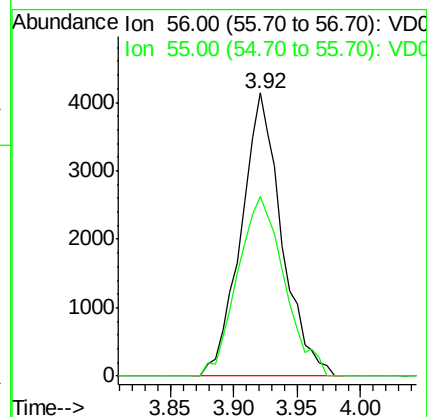
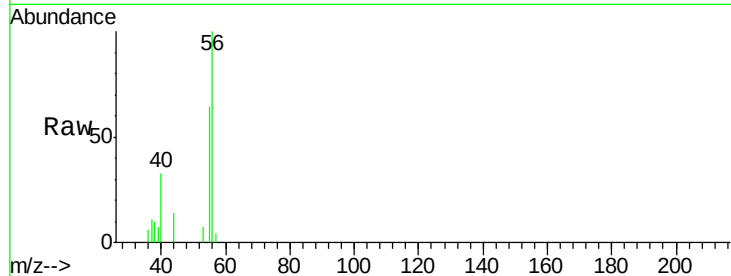
85.9

Manual Integrations

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#14

Allyl chloride

Concen: 24.632 ug/l

RT: 4.70 min Scan# 473

Delta R.T. -0.01 min

Lab File: VD065665.D

Acq: 22 Apr 2020 14:37

Tgt Ion: 41 Resp: 59712

Ion Ratio Lower Upper

41 100

39 67.5

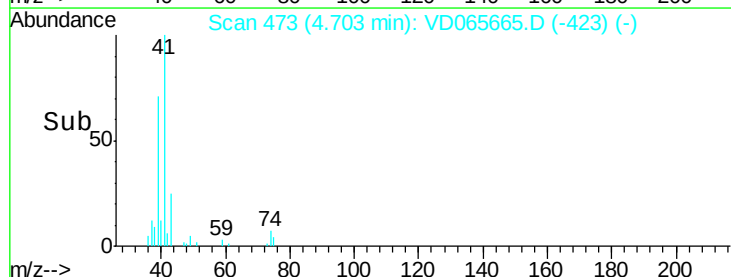
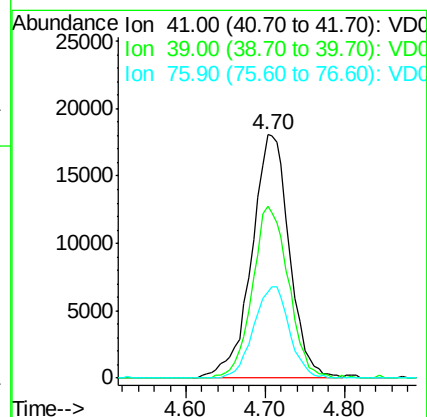
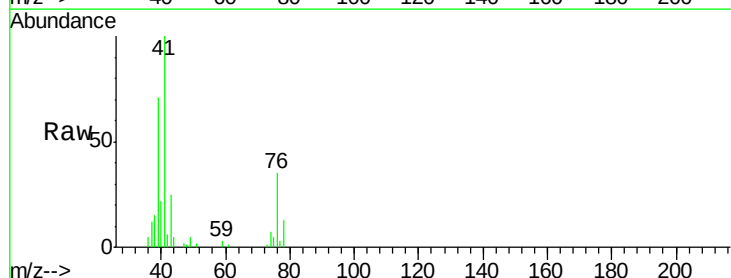
60.7

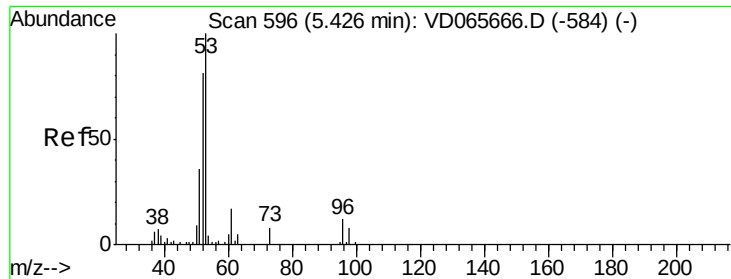
91.1

76 35.5

29.3

43.9





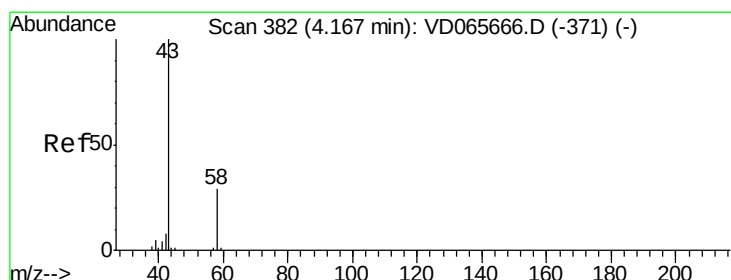
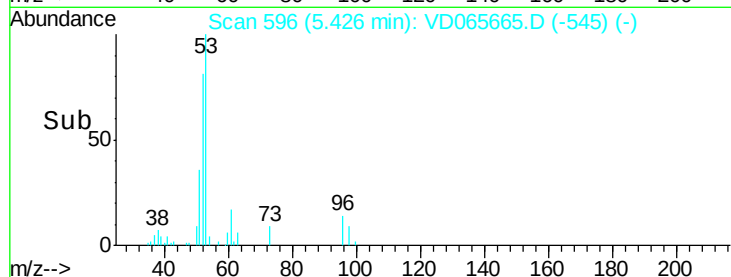
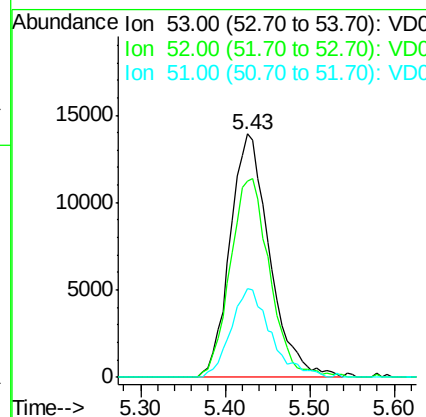
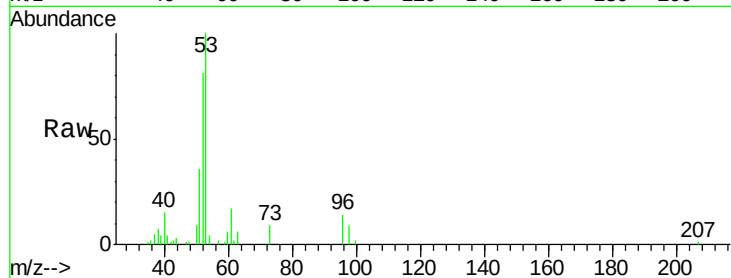
#15
 Acrylonitrile
 Concen: 109.062 ug/l
 RT: 5.43 min Scan# 596
 Delta R.T. 0.00 min
 Lab File: VD065665.D
 Acq: 22 Apr 2020 14:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion:	53	Resp:	44940
Ion	Ratio	Lower	Upper
53	100		
52	82.3	64.2	96.2
51	36.8	29.5	44.3

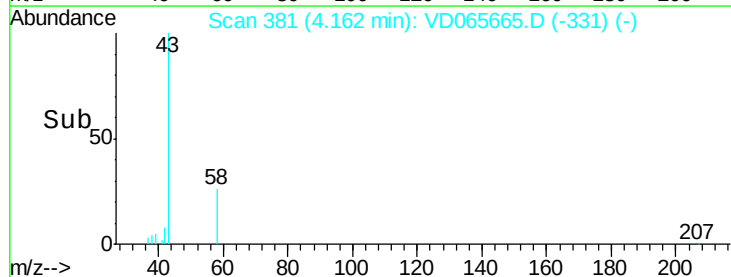
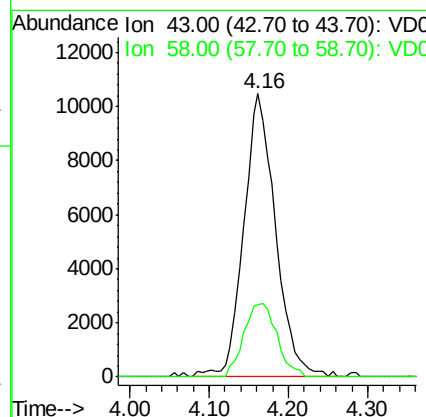
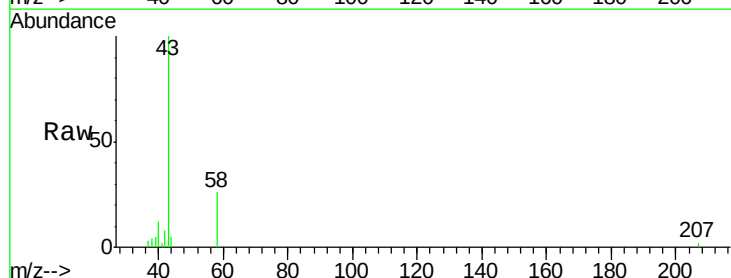
Manual Integrations
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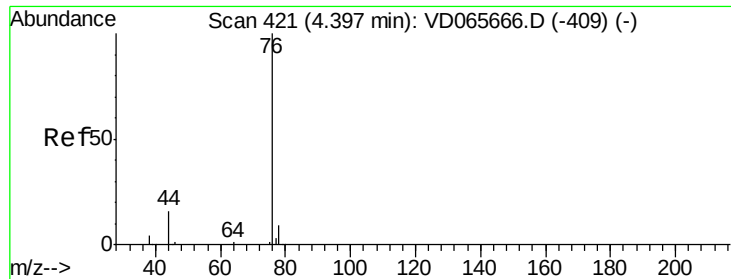
MMDadoda
 4/23/2020 1:31:39 PM



#16
 Acetone
 Concen: 105.674 ug/l
 RT: 4.16 min Scan# 381
 Delta R.T. -0.01 min
 Lab File: VD065665.D
 Acq: 22 Apr 2020 14:37

Tgt Ion:	43	Resp:	29204
Ion	Ratio	Lower	Upper
43	100		
58	25.5	22.6	34.0





#17

Carbon Disulfide

Concen: 24.778 ug/l

RT: 4.40 min Scan# 421

Delta R.T. 0.00 min

Lab File: VD065665.D

Acq: 22 Apr 2020 14:37

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 125774

Ion Ratio Lower Upper

76 100

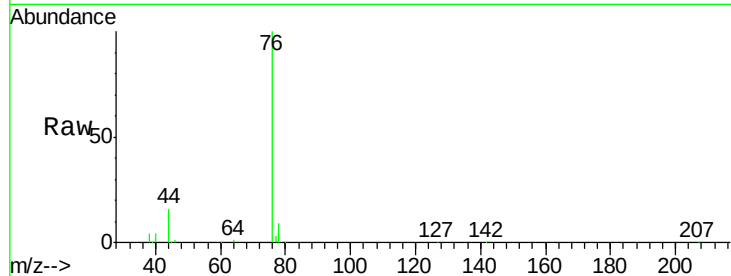
78 8.8 7.4 11.0

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

4.40

50000

40000

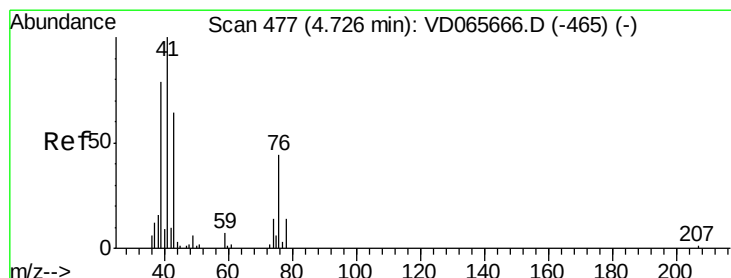
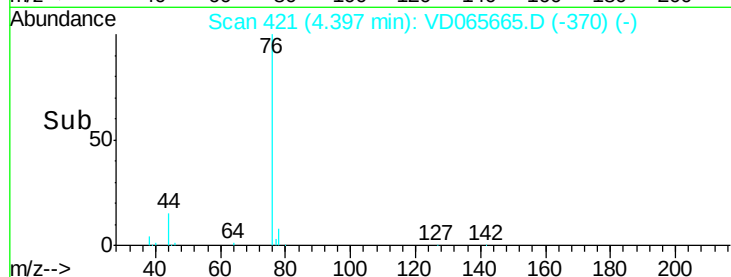
30000

20000

10000

0

Time-->



#18

Methyl Acetate

Concen: 26.059 ug/l

RT: 4.72 min Scan# 476

Delta R.T. -0.01 min

Lab File: VD065665.D

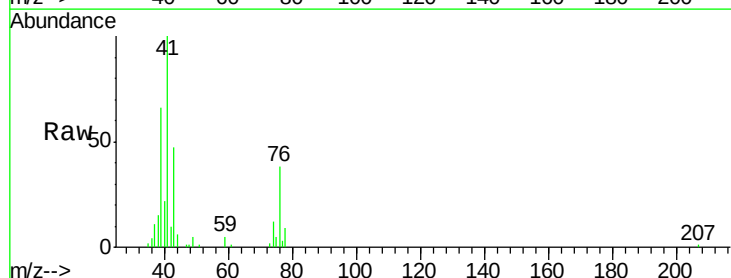
Acq: 22 Apr 2020 14:37

Tgt Ion: 43 Resp: 23620

Ion Ratio Lower Upper

43 100

74 24.4 18.6 28.0



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

4.72

8000

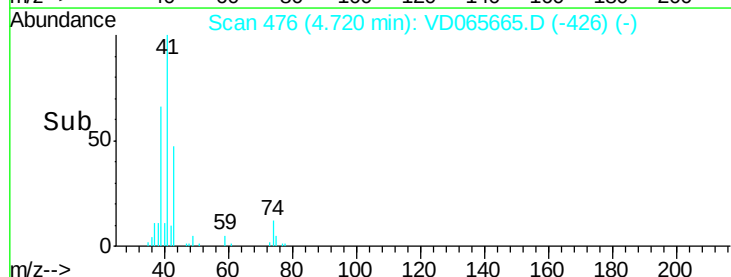
6000

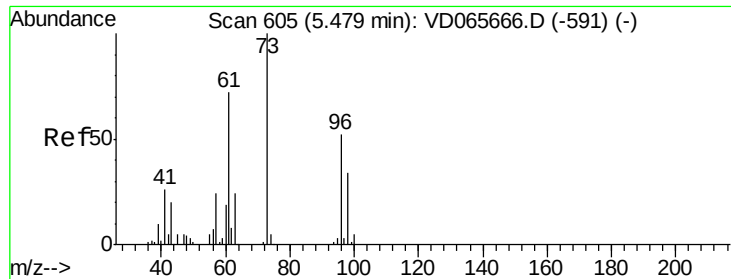
4000

2000

0

Time-->





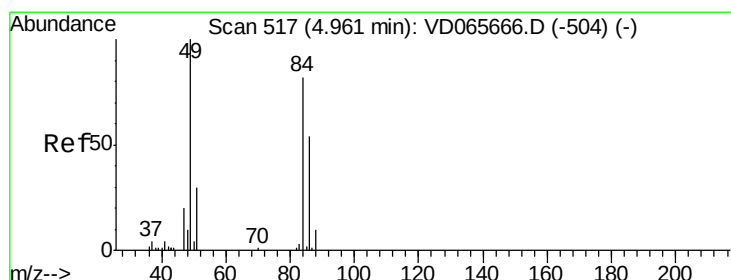
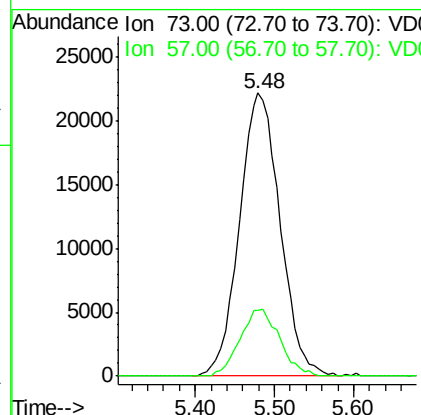
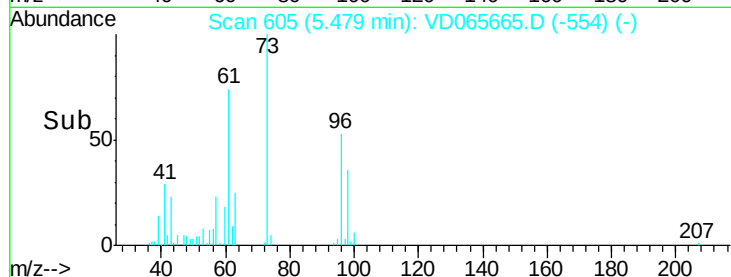
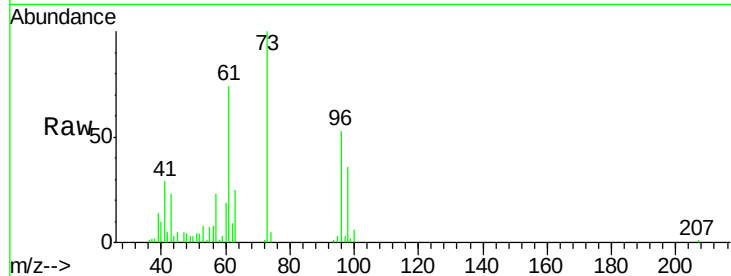
#19
Methyl tert-butyl Ether
Concen: 20.602 ug/l
RT: 5.48 min Scan# 605
Delta R.T. 0.00 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 73 Resp: 78730
Ion Ratio Lower Upper
73 100
57 23.3 19.6 29.4

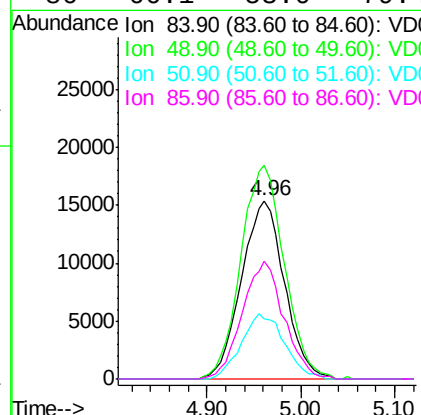
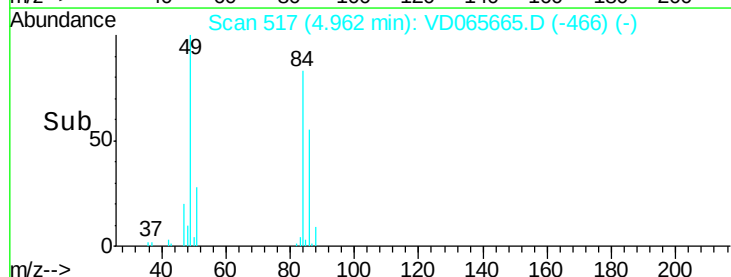
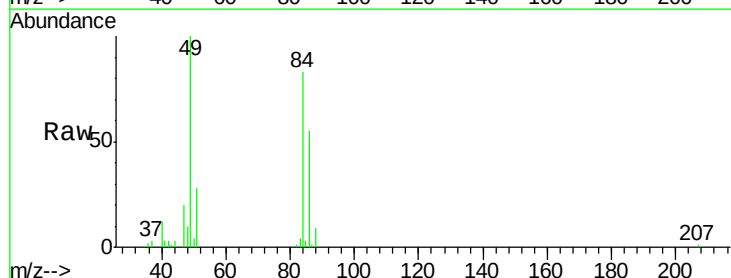
Manual Integrations
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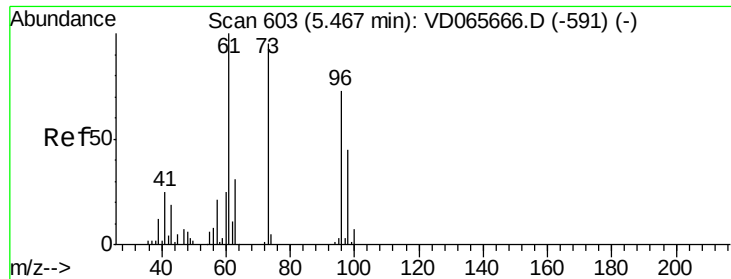
MMDadoda
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#20
Methylene Chloride
Concen: 22.437 ug/l
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Tgt Ion: 84 Resp: 48817
Ion Ratio Lower Upper
84 100
49 119.9 97.7 146.5
51 34.1 29.4 44.2
86 66.1 53.0 79.4





#21

trans-1,2-Dichloroethene

Concen: 20.448 ug/l

RT: 5.47 min Scan# 603

Delta R.T. 0.00 min

Lab File: VD065665.D

Acq: 22 Apr 2020 14:37

Instrument :

MSVOA_D

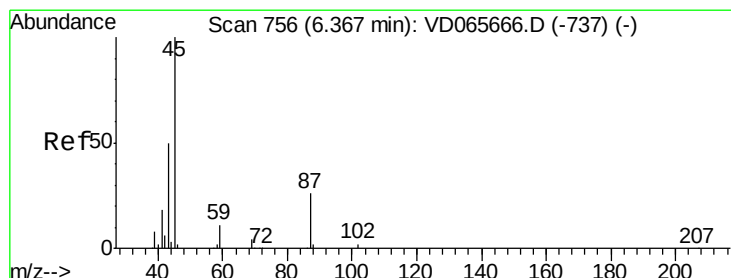
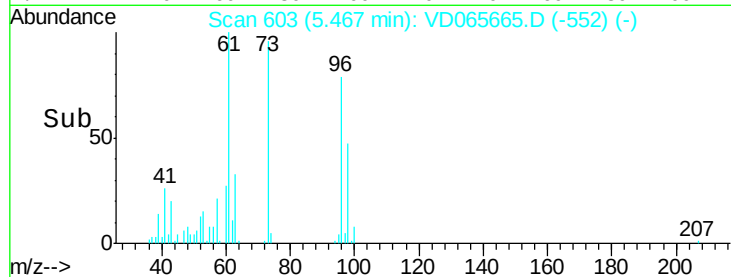
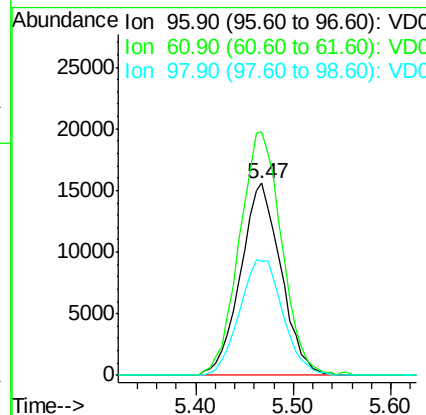
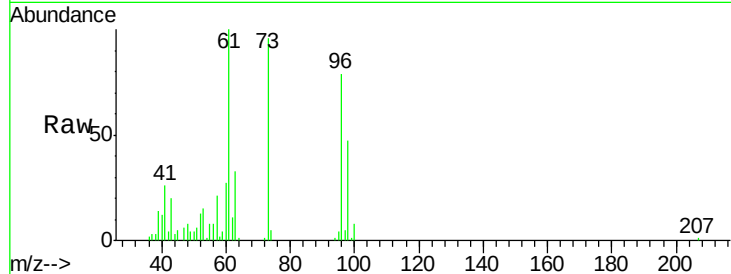
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	45063
Ion	Ratio	Lower	Upper
96	100		
61	126.7	109.6	164.4
98	59.4	49.3	73.9

Manual Integrations
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#22

Diisopropyl ether

Concen: 21.015 ug/l

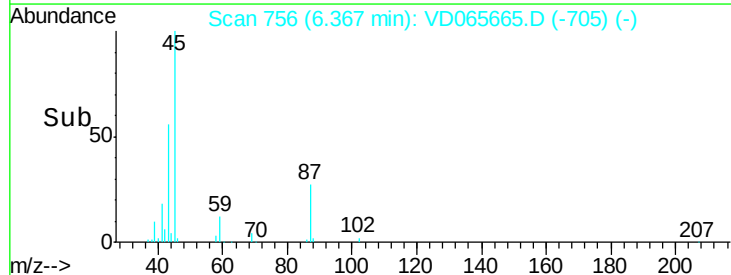
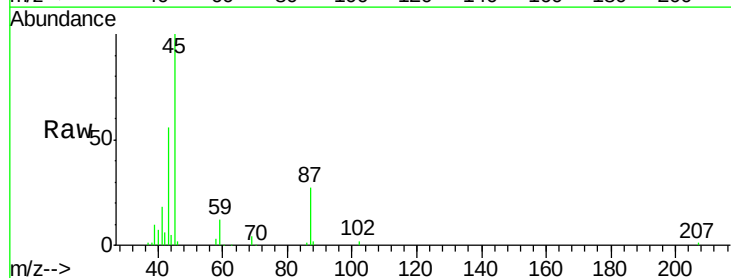
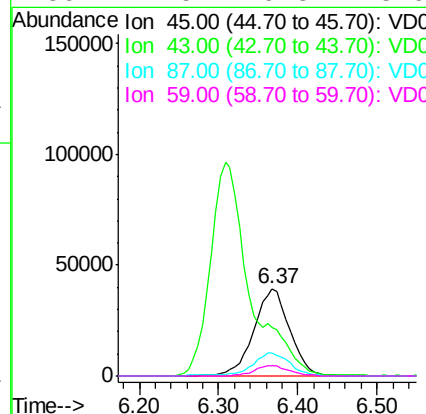
RT: 6.37 min Scan# 756

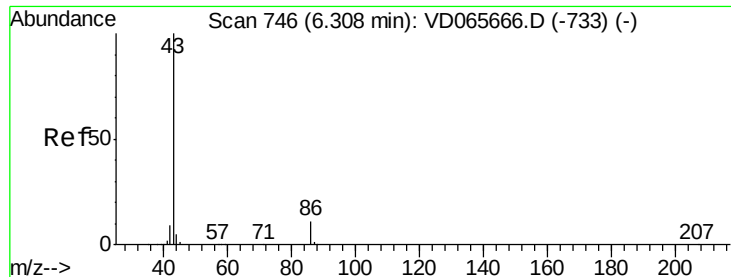
Delta R.T. 0.00 min

Lab File: VD065665.D

Acq: 22 Apr 2020 14:37

Tgt Ion:	45	Resp:	124047
Ion	Ratio	Lower	Upper
45	100		
43	55.4	41.9	62.9
87	27.1	21.6	32.4
59	12.5	9.3	13.9





#23

Vinyl Acetate

Concen: 105.812 ug/l

RT: 6.31 min Scan# 746

Delta R.T. 0.00 min

Lab File: VD065665.D

Acq: 22 Apr 2020 14:37

Instrument :

MSVOA_D

ClientSampleID :

VSTDIC020

Tot Ion: 43 Resp: 332856

Ion Ratio Lower Upper

43 100

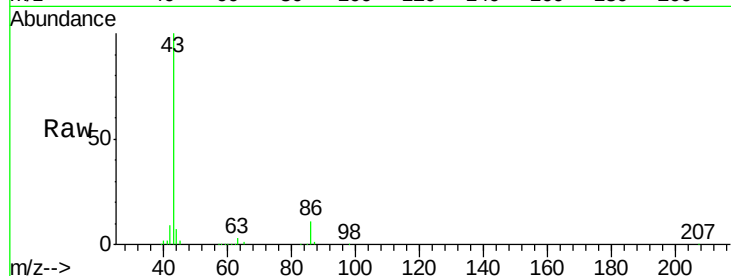
86 10.7 8.7 13.1

Manual Integrations

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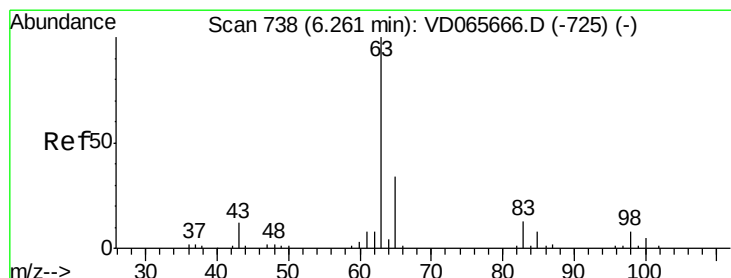
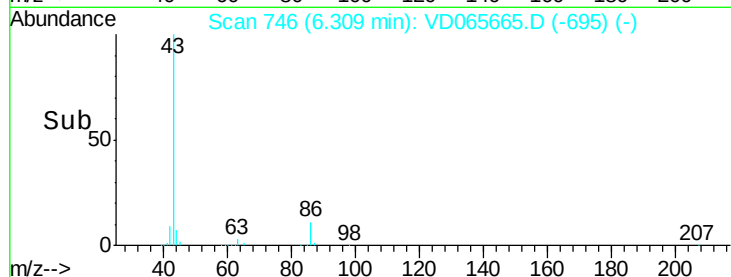
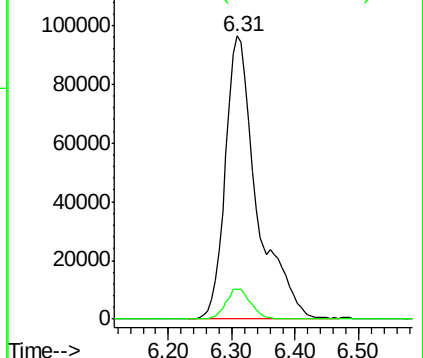
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 20.594 ug/l

RT: 6.27 min Scan# 739

Delta R.T. 0.01 min

Lab File: VD065665.D

Acq: 22 Apr 2020 14:37

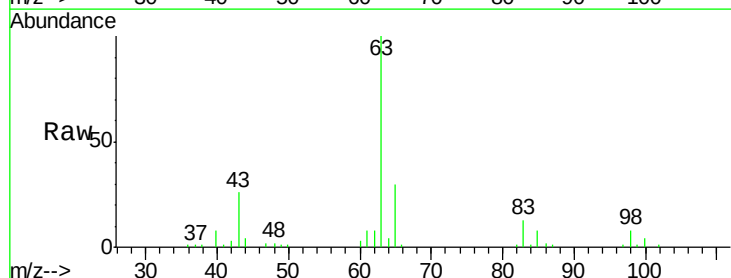
Tgt Ion: 63 Resp: 77485

Ion Ratio Lower Upper

63 100

98 7.9 3.8 11.2

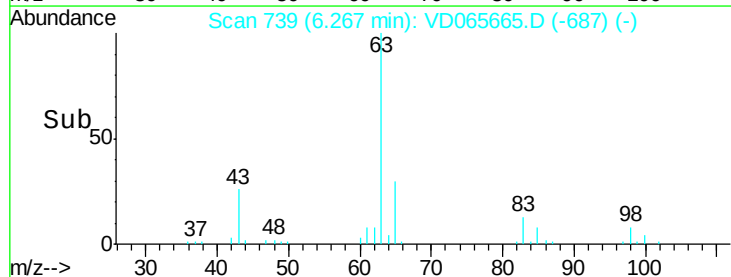
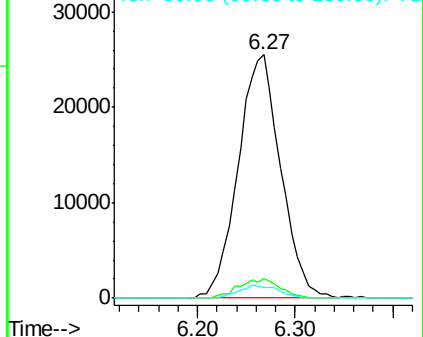
100 4.2 2.3 6.9

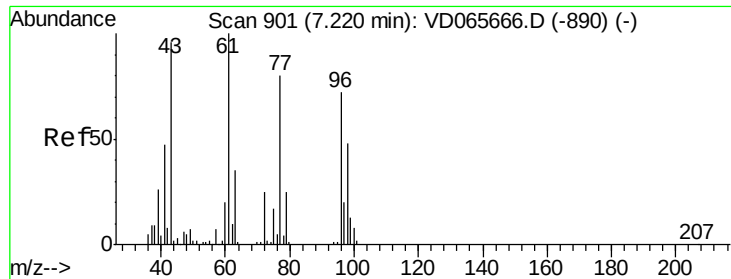


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 107.221 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.00 min

Lab File: VD065665.D

Acq: 22 Apr 2020 14:37

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 54031

Ion Ratio Lower Upper

43 100

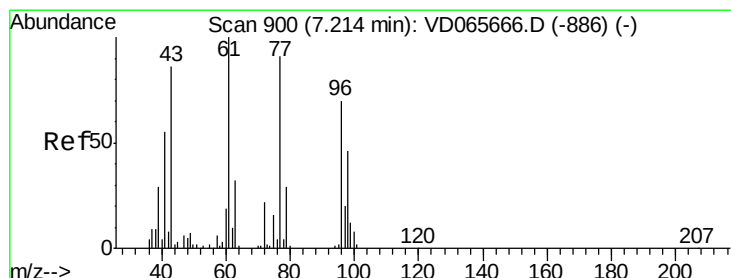
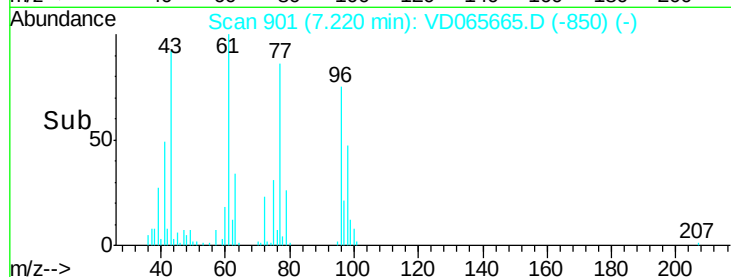
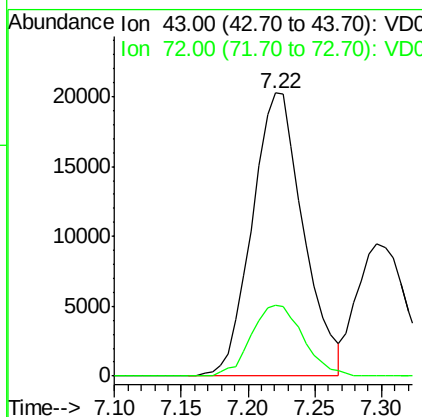
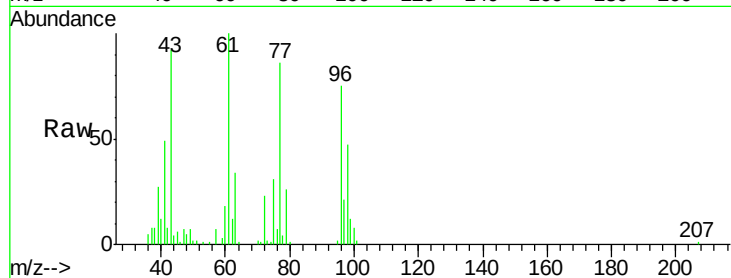
72 25.3 21.1 31.7

Manual Integrations

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MMDadoda

4/23/2020 1:31:39 PM



#26

2,2-Dichloropropane

Concen: 20.381 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD065665.D

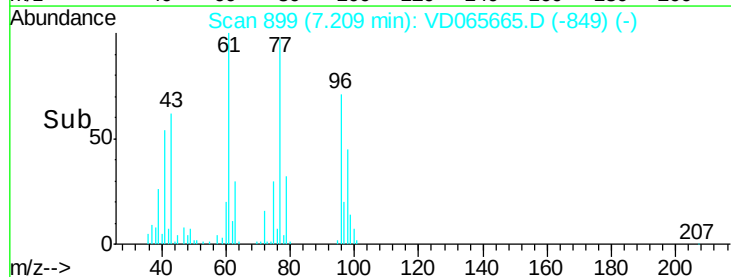
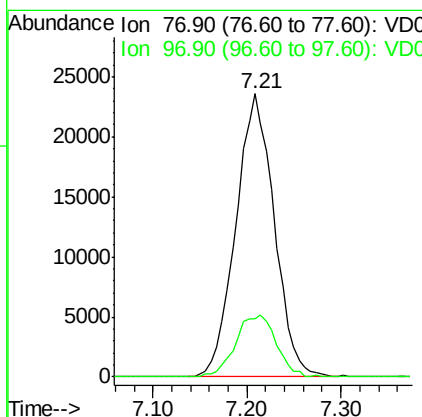
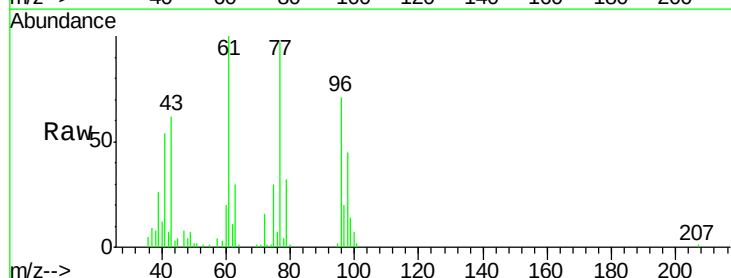
Acq: 22 Apr 2020 14:37

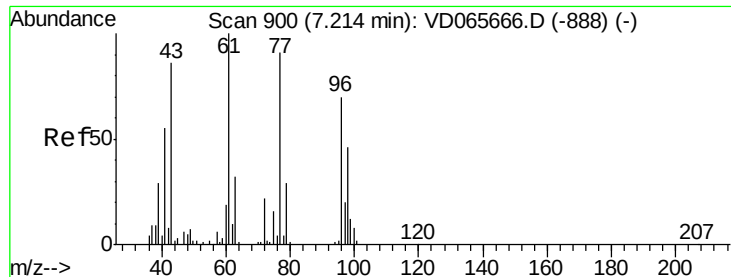
Tgt Ion: 77 Resp: 66776

Ion Ratio Lower Upper

77 100

97 22.9 11.5 34.4





#27

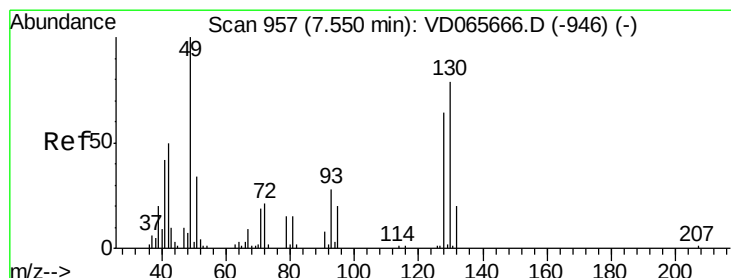
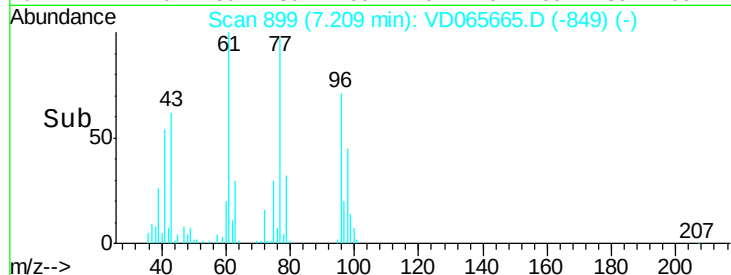
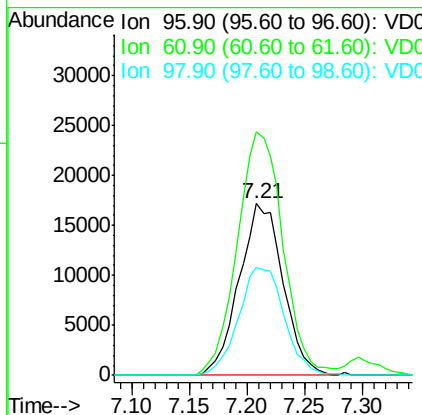
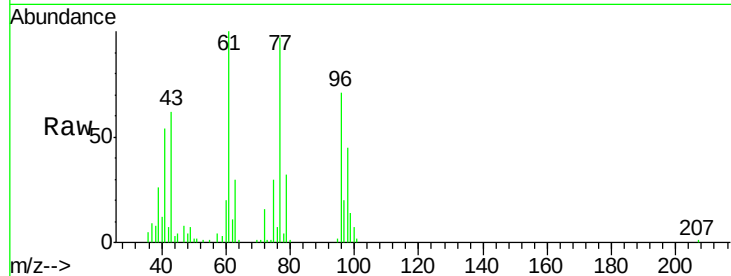
cis-1,2-Dichloroethene
Concen: 19.863 ug/l
RT: 7.21 min Scan# 899
Delta R.T. -0.01 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	146.8	0.0	290.4
98	65.4	0.0	131.0

Manual Integrations
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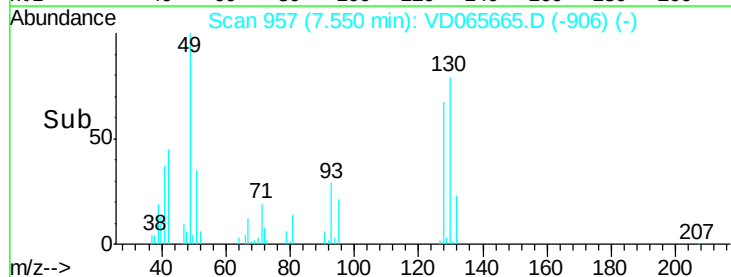
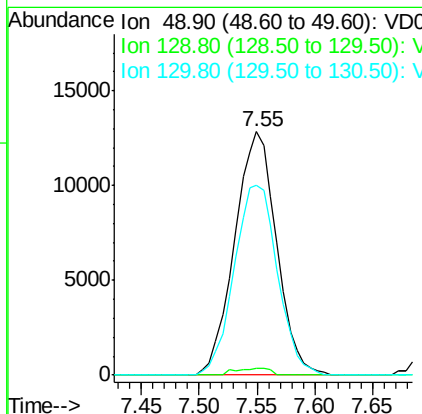
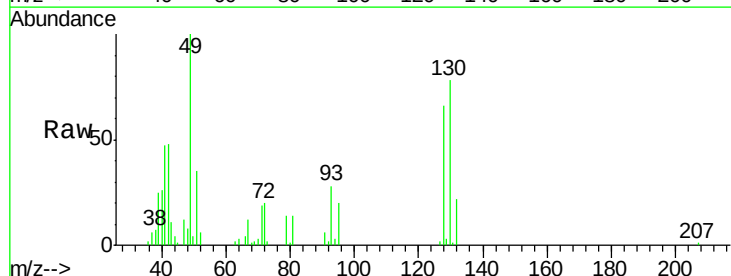
MMDadoda
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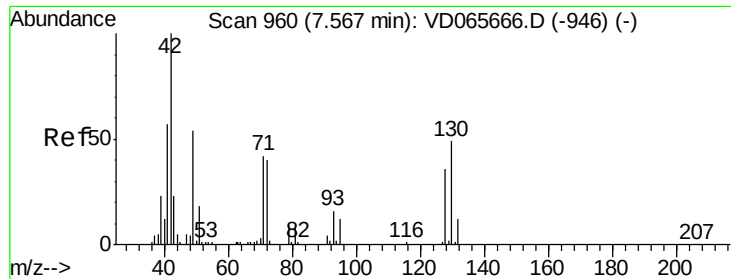


#28

Bromochloromethane
Concen: 21.020 ug/l
RT: 7.55 min Scan# 957
Delta R.T. 0.00 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	5.0
130	80.9	66.3	99.5





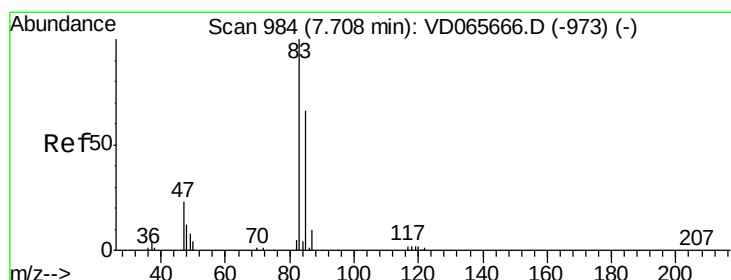
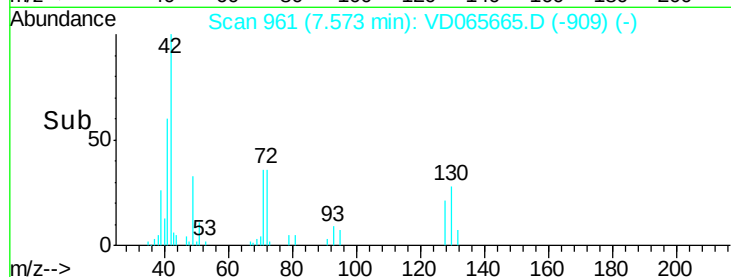
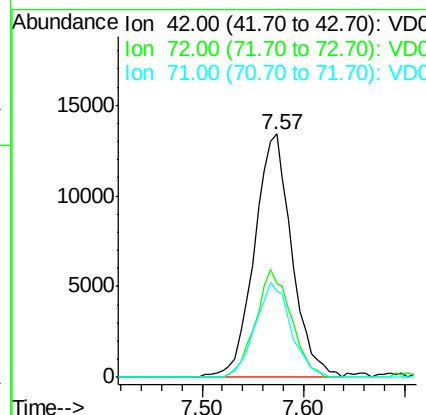
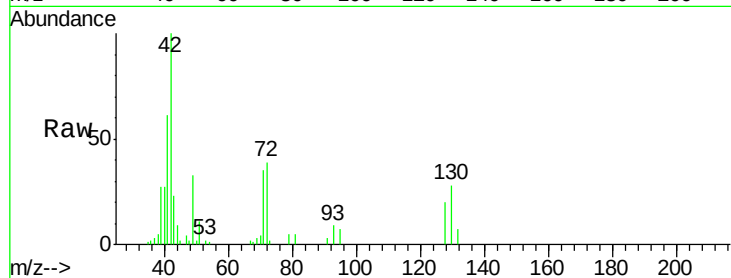
#29
Tetrahydrofuran
Concen: 108.242 ug/l
RT: 7.57 min Scan# 961
Delta R.T. 0.01 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.7	33.8	50.6
71	37.2	30.7	46.1

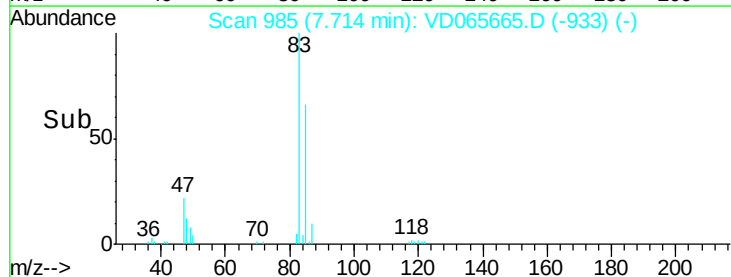
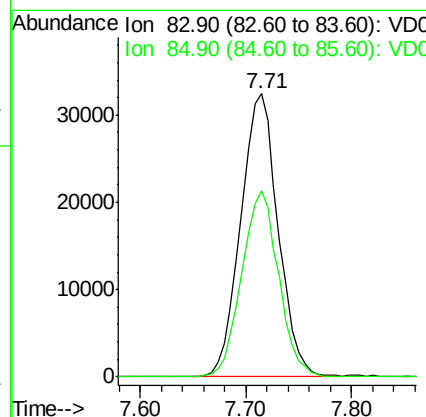
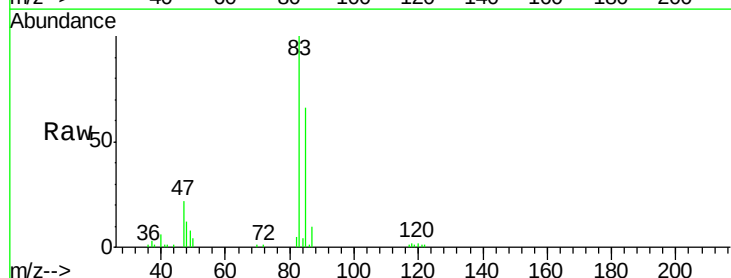
Manual Integrations
APPROVED

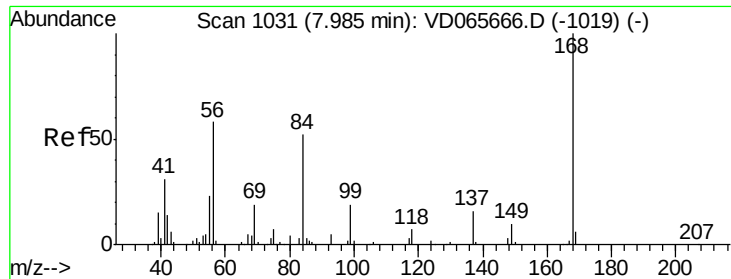
MMDadoda
4/23/2020 1:31:39 PM



#30
Chloroform
Concen: 20.765 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.01 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.7	52.5	78.7





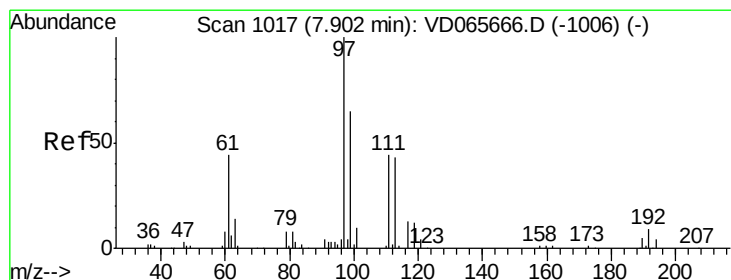
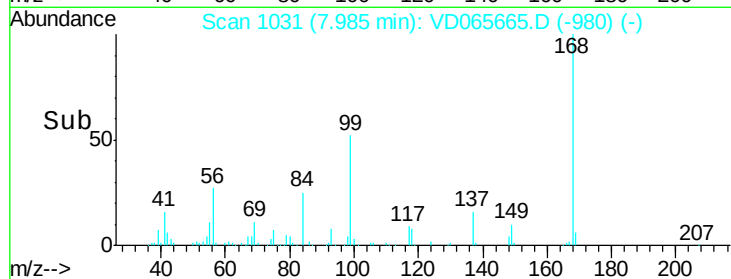
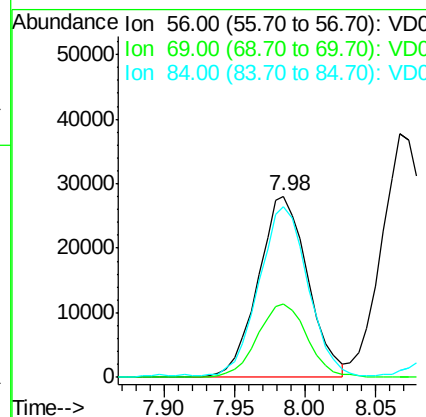
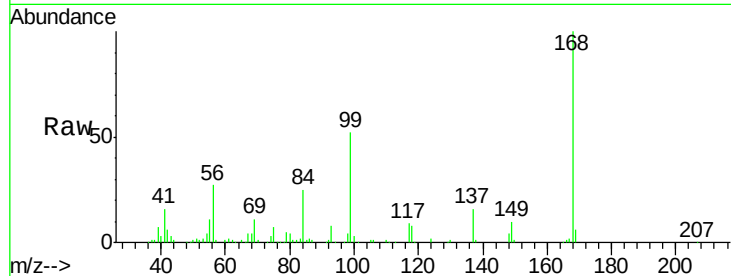
#31
Cyclohexane
Concen: 19.316 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Instrument :
MSVOA_D
ClientSampleID :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
56	100		
69	40.5	26.3	39.5#
84	92.9	71.4	107.0

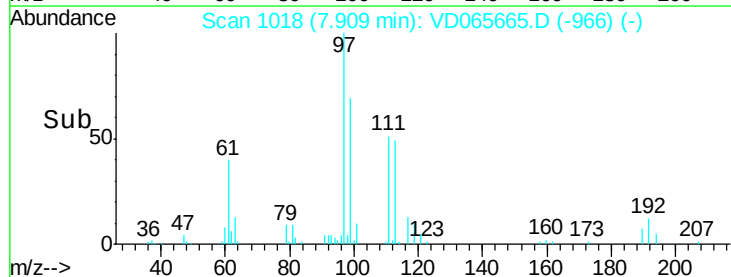
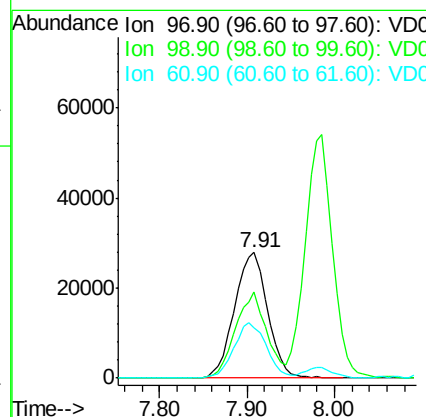
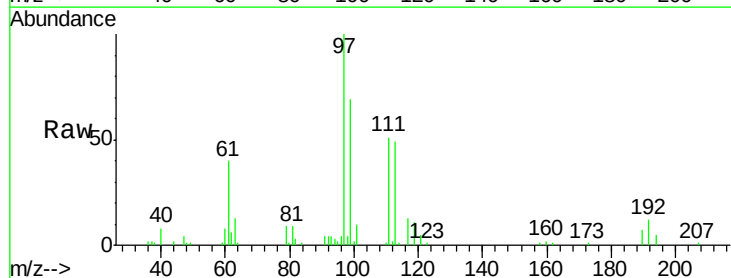
Manual Integrations
APPROVED

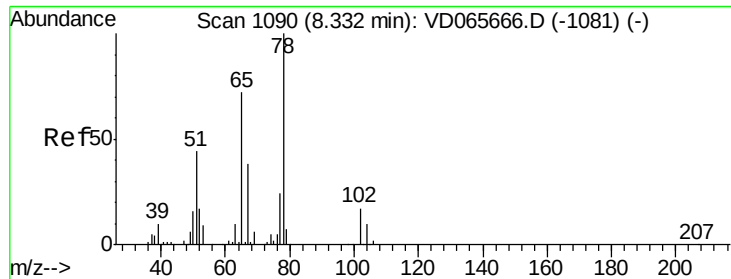
MMDadoda
4/23/2020 1:31:39 PM



#32
1,1,1-Trichloroethane
Concen: 20.657 ug/l
RT: 7.91 min Scan# 1018
Delta R.T. 0.01 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.4	51.1	76.7
61	43.1	35.8	53.6





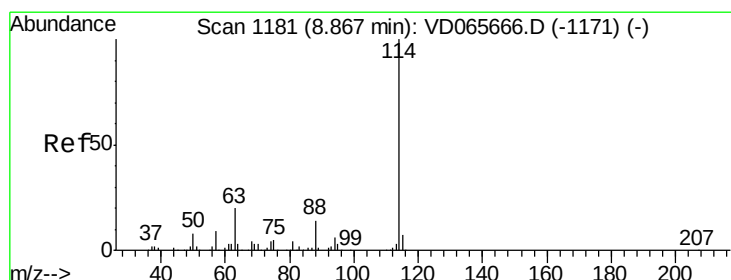
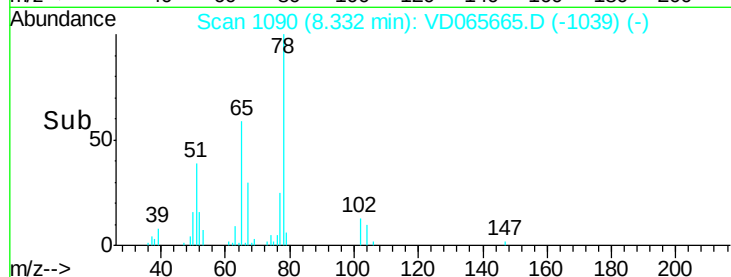
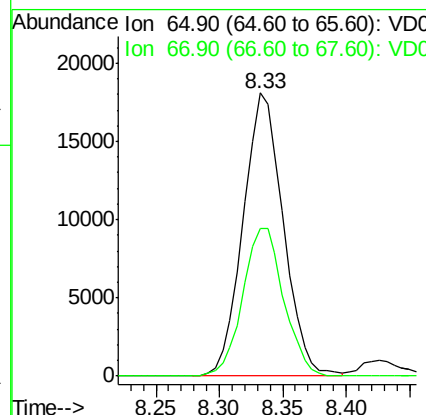
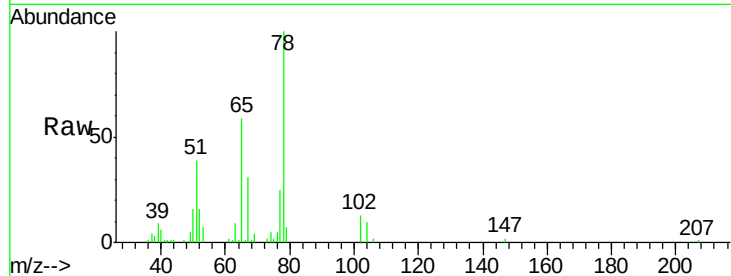
#33
 1,2-Dichloroethane-d4
 Concen: 20.517 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VD065665.D
 Acq: 22 Apr 2020 14:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	107.0

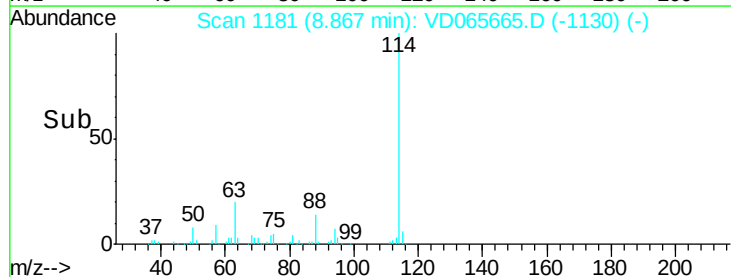
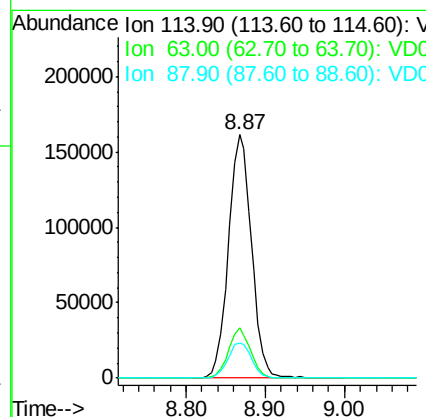
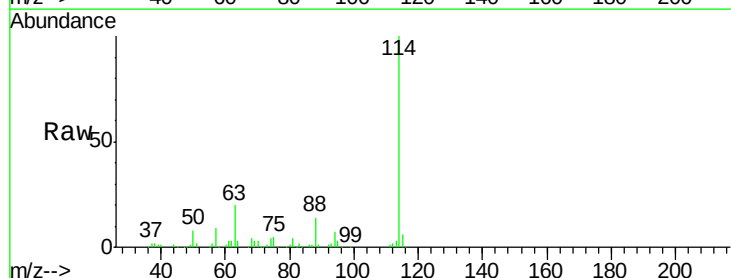
Manual Integrations
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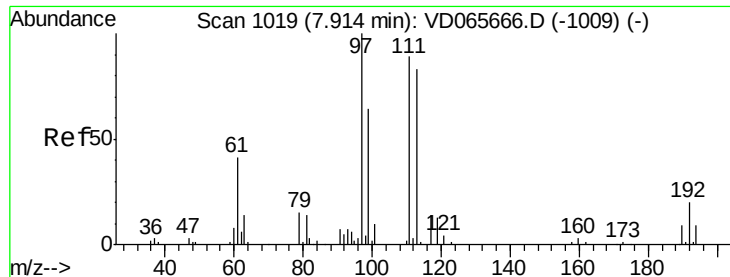
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD065665.D
 Acq: 22 Apr 2020 14:37

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	39.2
88	14.3	0.0	28.4





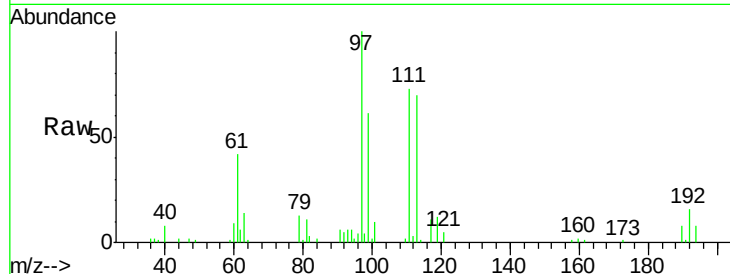
#35
 Dibromofluoromethane
 Concen: 20.036 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VD065665.D
 Acq: 22 Apr 2020 14:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
113	100		
111	104.8	83.2	124.8
192	22.5	18.6	28.0

Manual Integrations
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MMDadoda
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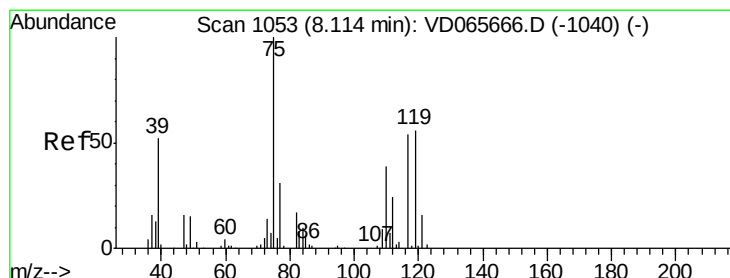
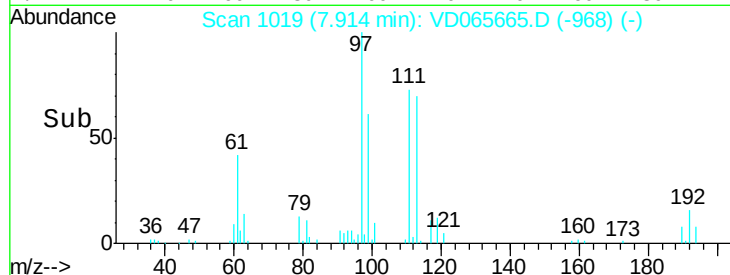
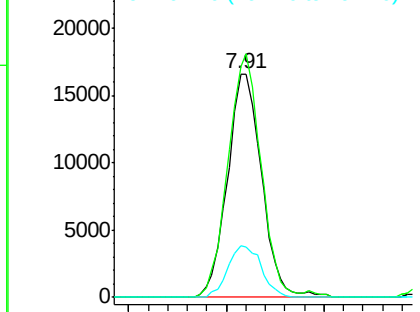


Abundance

Ion 112.80 (112.50 to 113.50): V

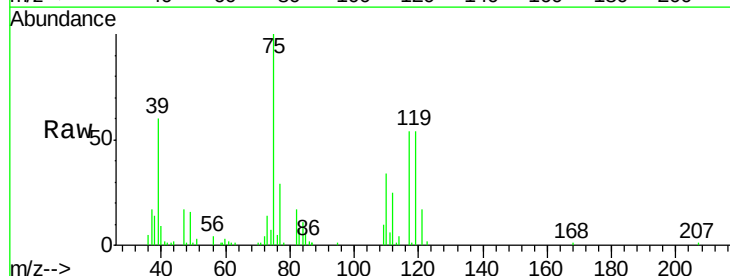
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 20.452 ug/l
 RT: 8.11 min Scan# 1053
 Delta R.T. 0.00 min
 Lab File: VD065665.D
 Acq: 22 Apr 2020 14:37

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.2	18.4	55.0
77	30.0	25.3	37.9

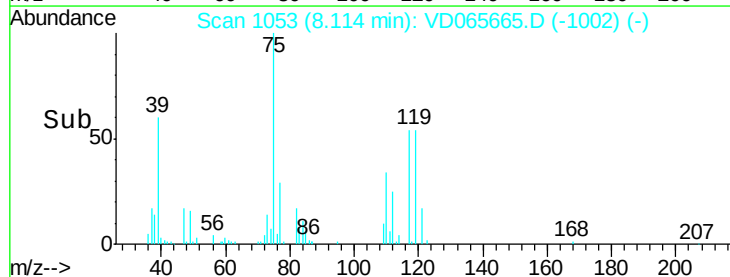
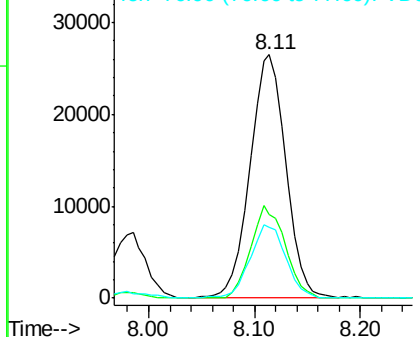


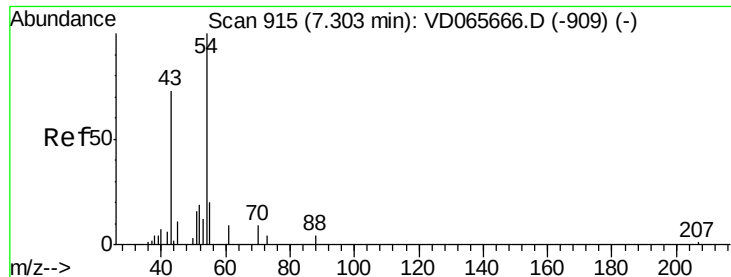
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





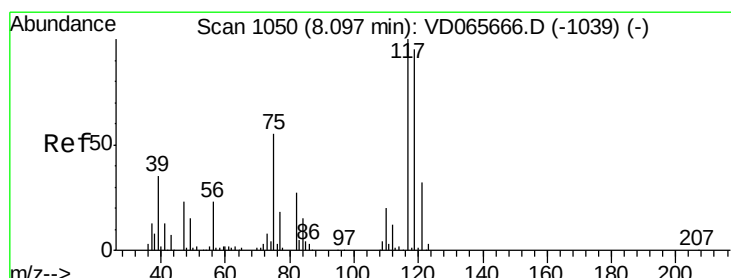
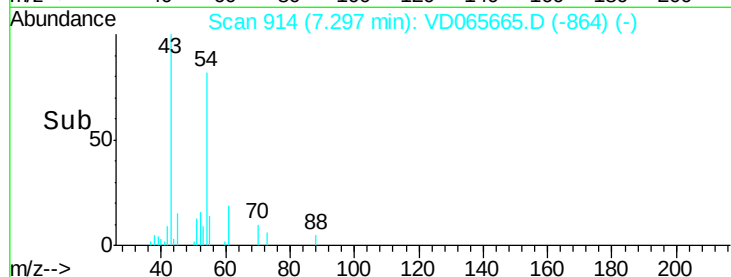
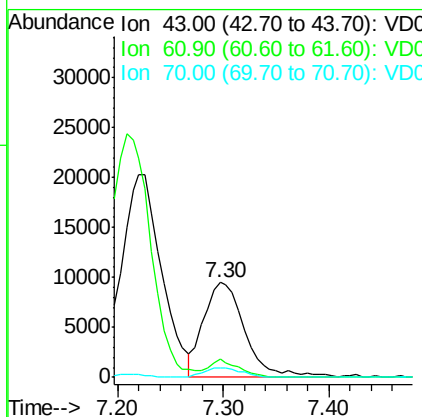
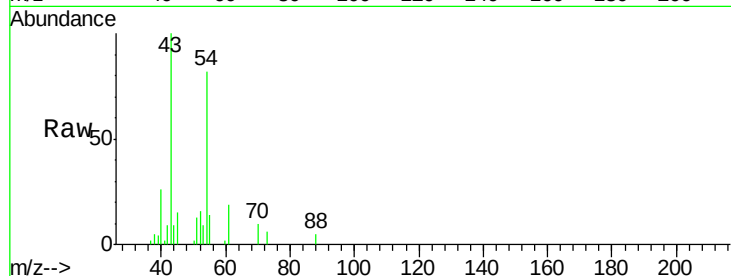
#37
Ethyl Acetate
Concen: 21.417 ug/l
RT: 7.30 min Scan# 914
Delta R.T. -0.01 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.0	12.1	18.1
70	9.3	7.8	11.8

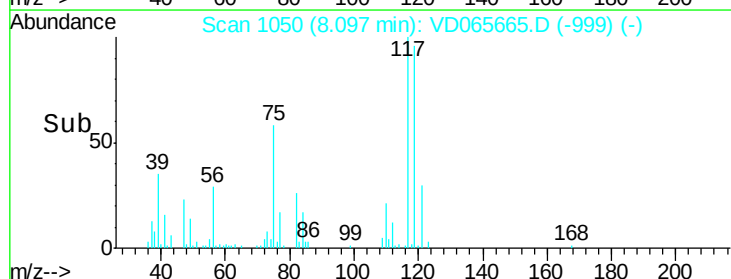
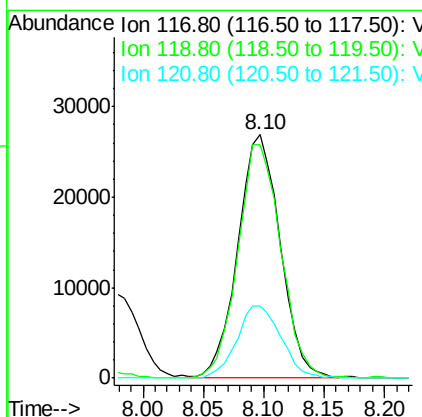
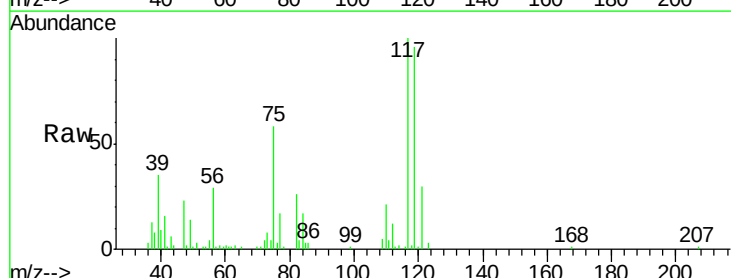
Manual Integrations
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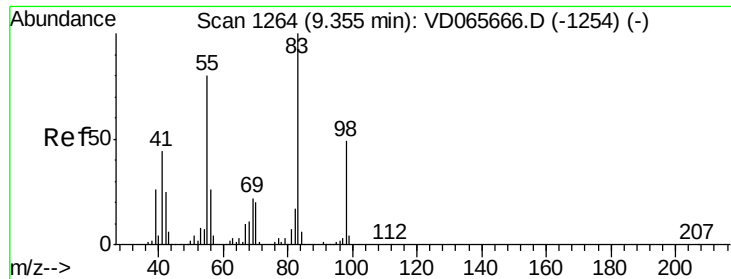
MMDadoda
4/23/2020 1:31:39 PM



#38
Carbon Tetrachloride
Concen: 20.232 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.7	75.7	113.5
121	29.7	25.8	38.6





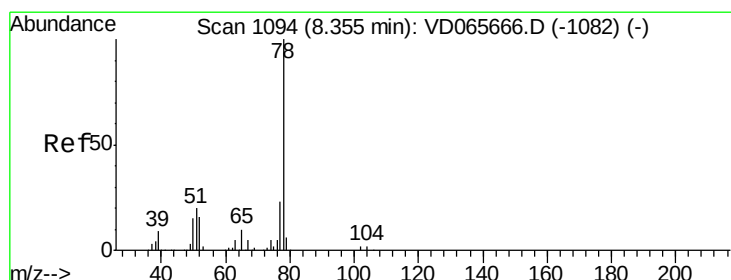
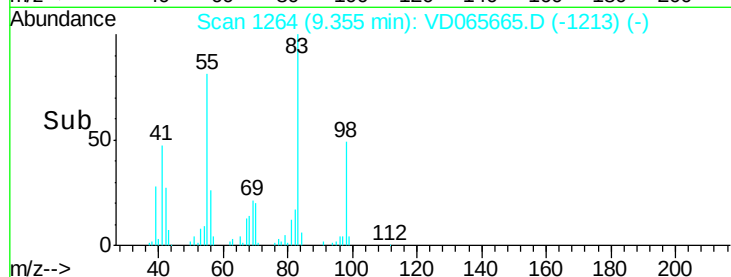
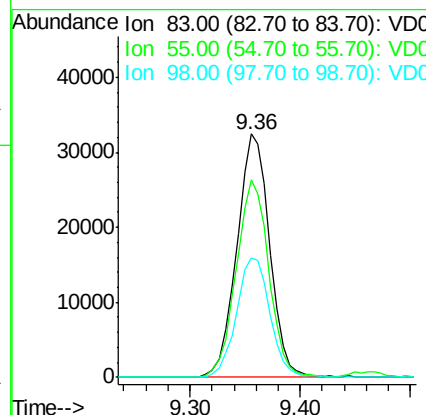
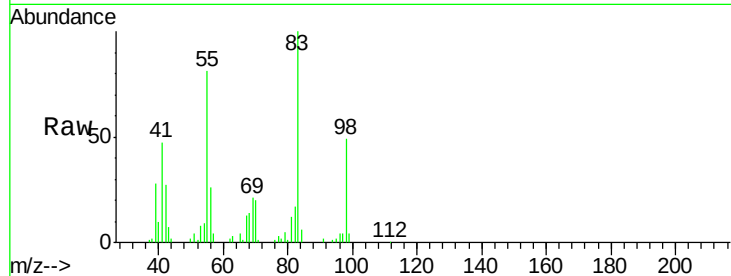
#39
Methylvlcyclohexane
Concen: 19.150 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
55	81.4	64.0	96.0
98	49.3	39.2	58.8

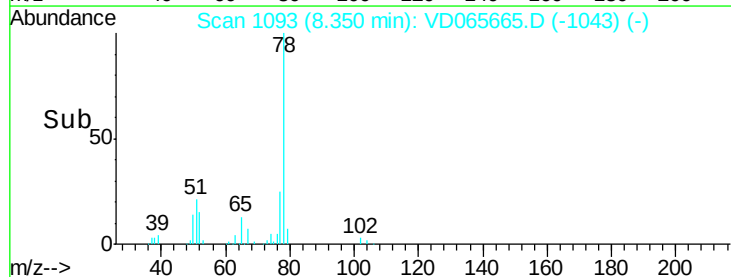
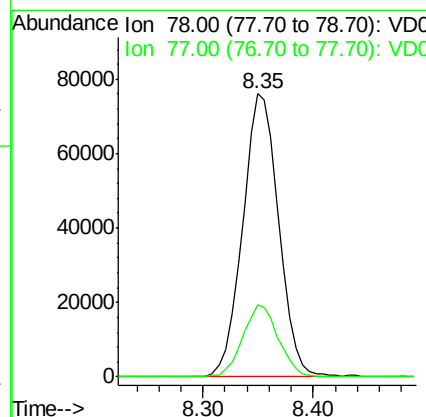
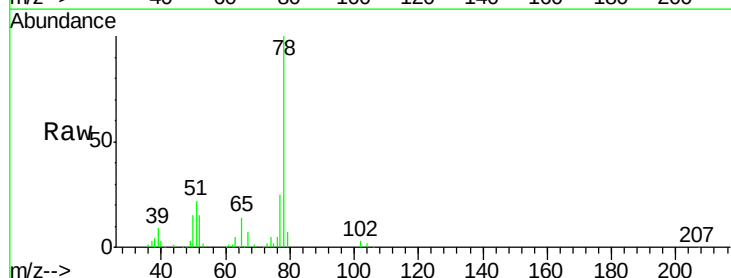
Manual Integrations
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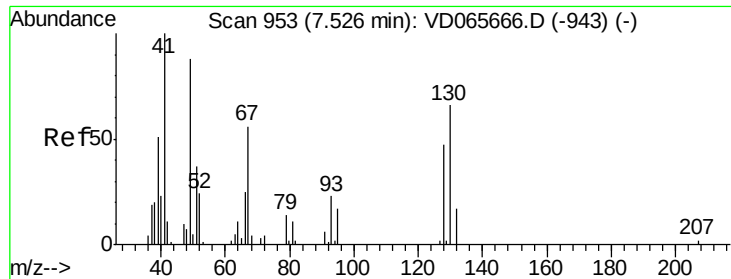
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#40
Benzene
Concen: 19.901 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.4	18.7	28.1





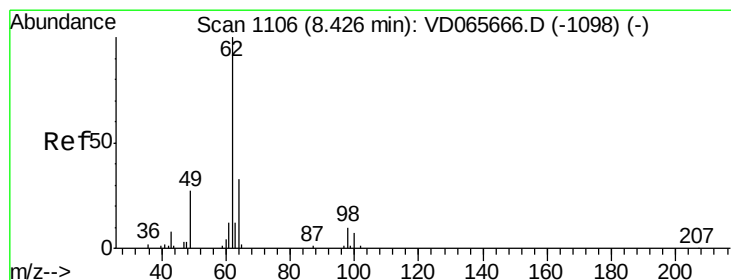
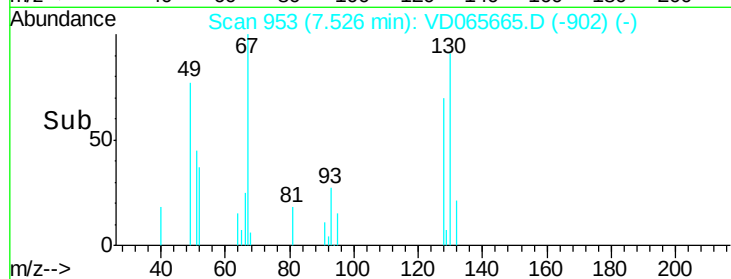
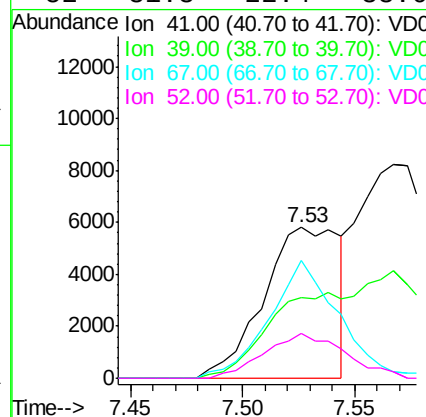
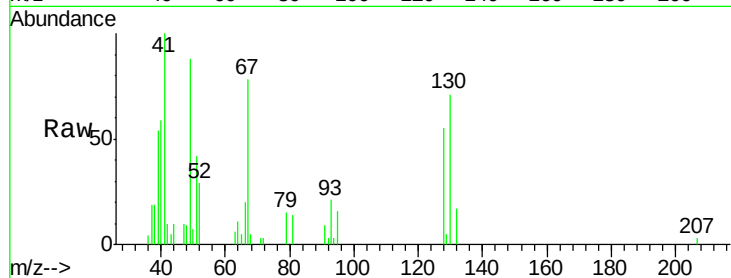
#41
Methacrylonitrile
Concen: 21.847 ug/l m
RT: 7.53 min Scan# 953
Delta R.T. 0.00 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	41	Resp	13859
Ion Ratio	Lower	Upper	
41	100		
39	0.0	43.8	65.6#
67	70.4	54.4	81.6
52	31.3	22.4	33.6

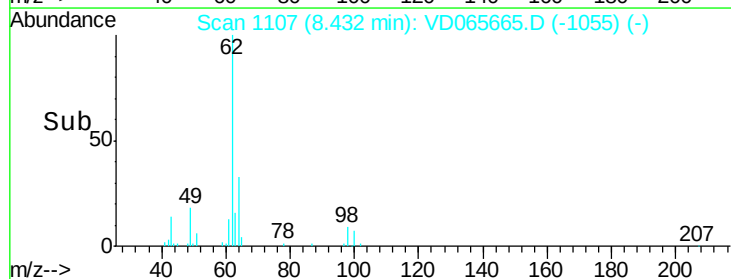
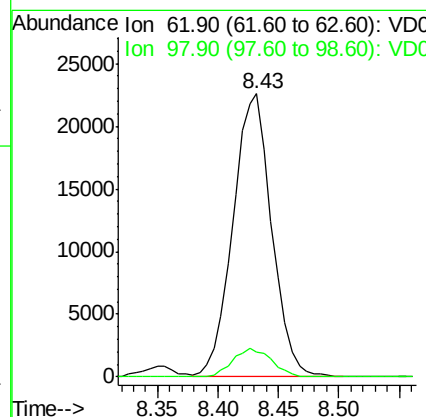
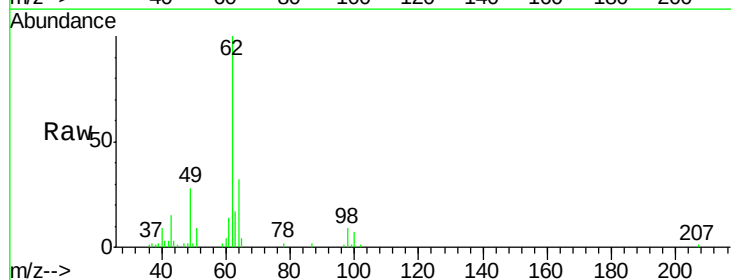
Manual Integrations
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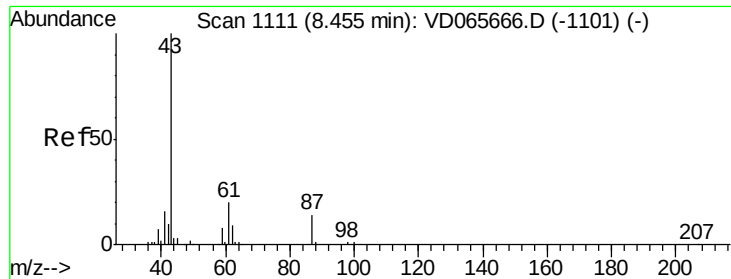
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4/23/2020 1:31:39 PM



#42
1,2-Dichloroethane
Concen: 21.087 ug/l
RT: 8.43 min Scan# 1107
Delta R.T. 0.01 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Tgt Ion	62	Resp	50398
Ion Ratio	Lower	Upper	
62	100		
98	10.1	0.0	20.2





#43

Isopropyl Acetate

Concen: 20.527 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VD065665.D

Acq: 22 Apr 2020 14:37

Instrument :

MSVOA_D

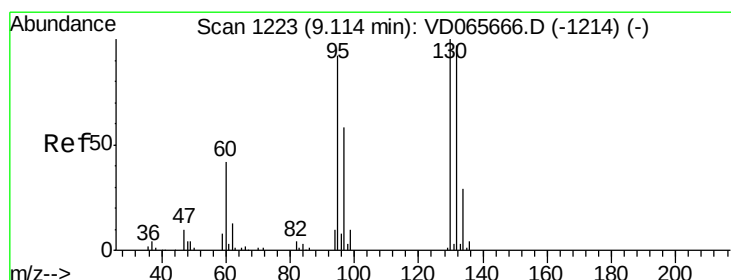
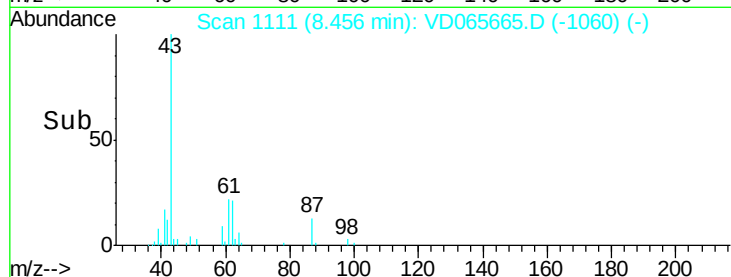
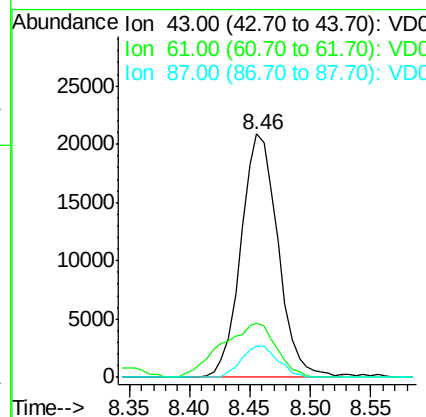
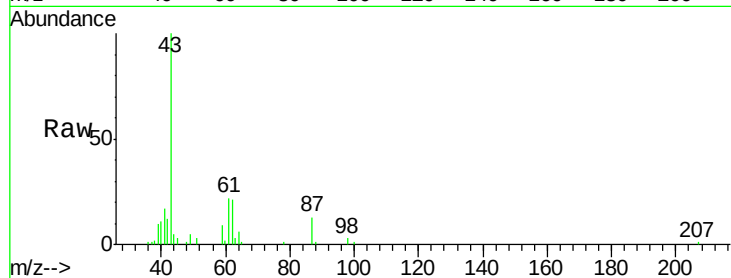
ClientSampleId :

VSTDIC020

Tot Ion:	43	Resp:	44670
Ion	Ratio	Lower	Upper
43	100		
61	32.5	24.7	37.1
87	12.6	10.6	16.0

Manual Integrations
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MMDadoda
4/23/2020 1:31:39 PM



#44

Trichloroethene

Concen: 20.119 ug/l

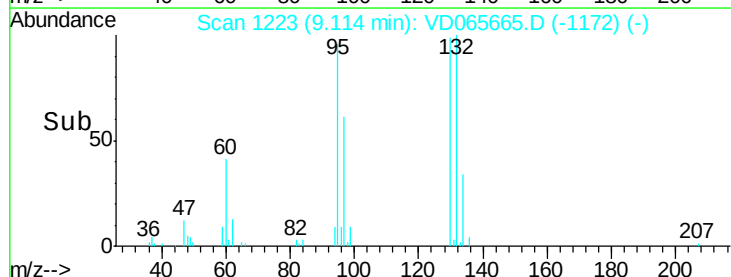
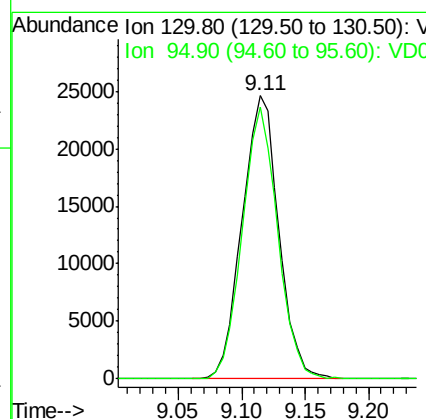
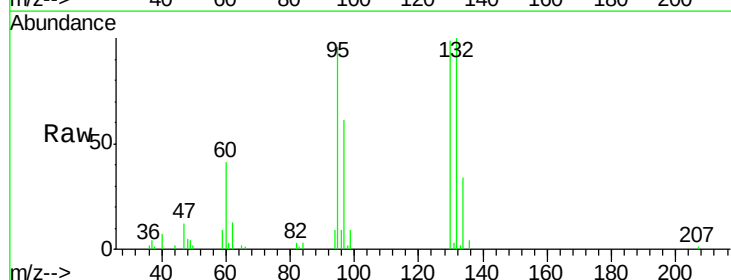
RT: 9.11 min Scan# 1223

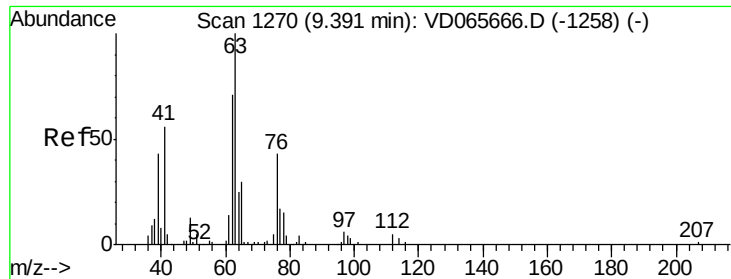
Delta R.T. 0.00 min

Lab File: VD065665.D

Acq: 22 Apr 2020 14:37

Tgt Ion:	130	Resp:	49357
Ion	Ratio	Lower	Upper
130	100		
95	96.1	0.0	183.2





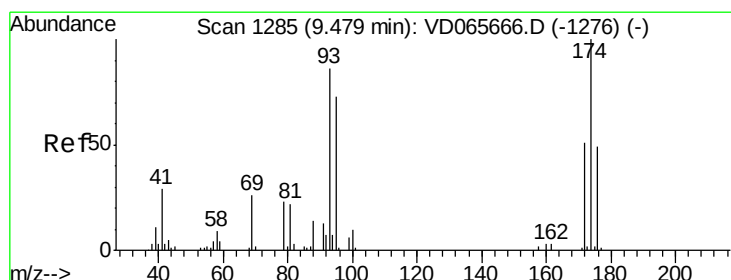
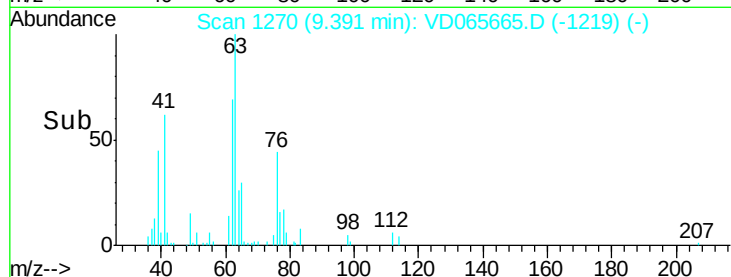
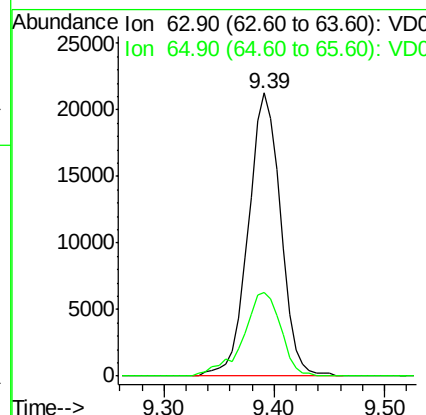
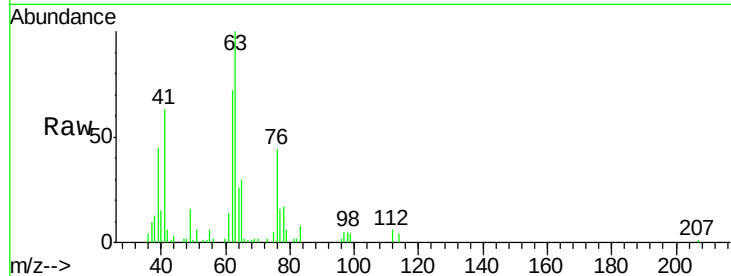
#45
 1,2-Dichloropropane
 Concen: 20.492 ug/l
 RT: 9.39 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VD065665.D
 Acq: 22 Apr 2020 14:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	63	Resp	43864
Ion Ratio	Lower	Upper	
63	100		
65	29.6	24.2	36.4

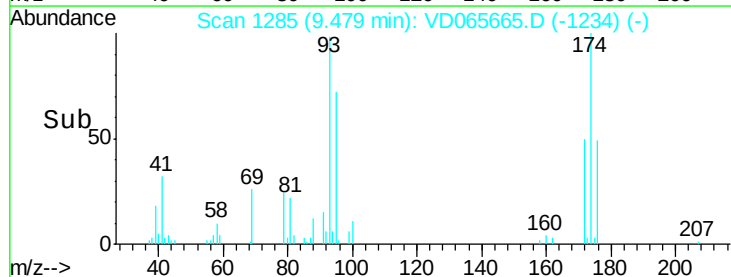
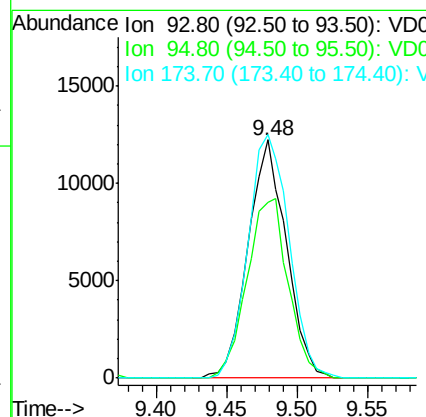
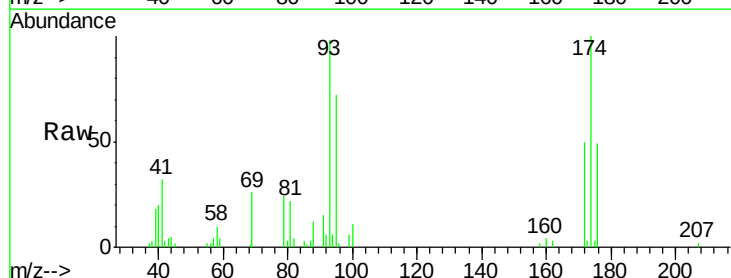
Manual Integrations
 APPROVED

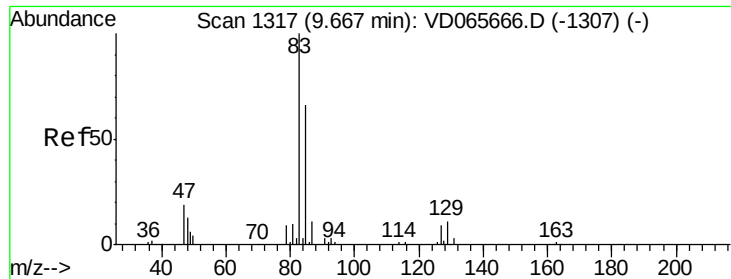
MMDadoda
 4/23/2020 1:31:39 PM



#46
 Dibromomethane
 Concen: 21.002 ug/l
 RT: 9.48 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: VD065665.D
 Acq: 22 Apr 2020 14:37

Tgt Ion	93	Resp	23258
Ion Ratio	Lower	Upper	
93	100		
95	81.1	66.4	99.6
174	110.2	93.0	139.6





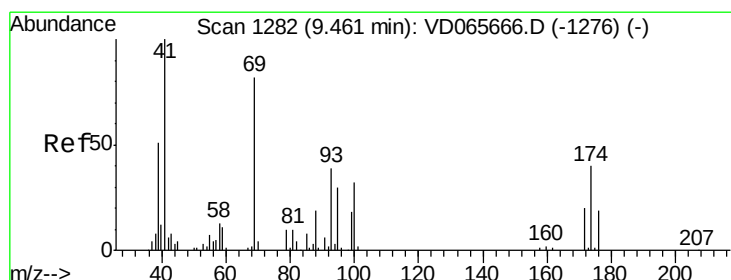
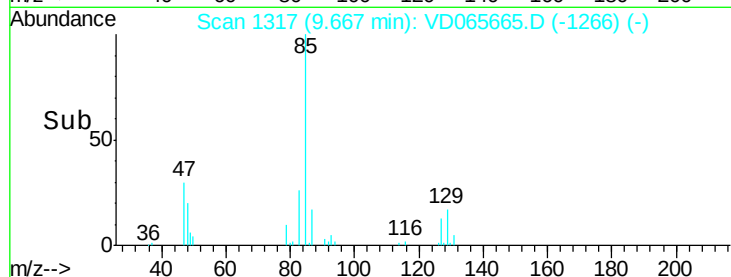
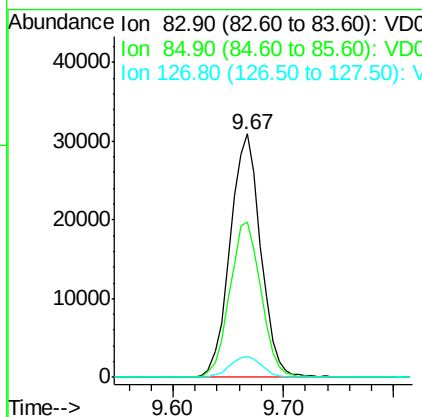
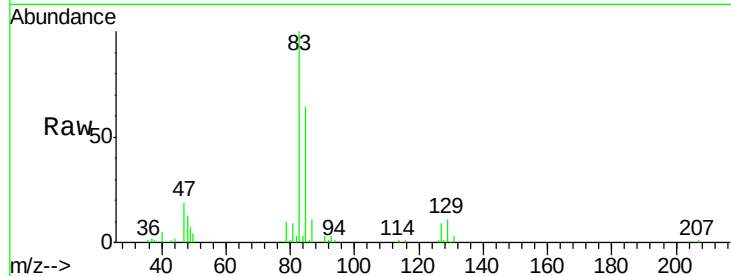
#47
Bromodichloromethane
Concen: 20.438 ug/l
RT: 9.67 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
83	100	60106		
85	63.6	53.2	79.8	
127	8.5	7.3	10.9	

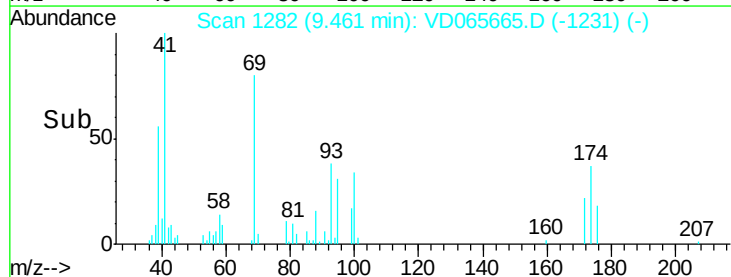
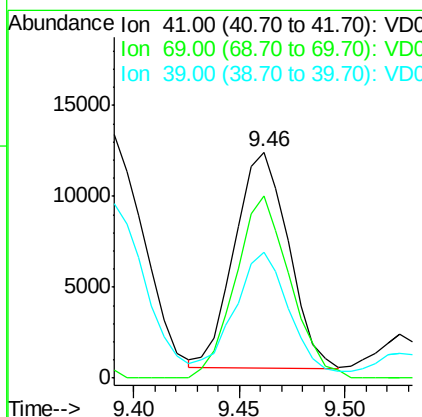
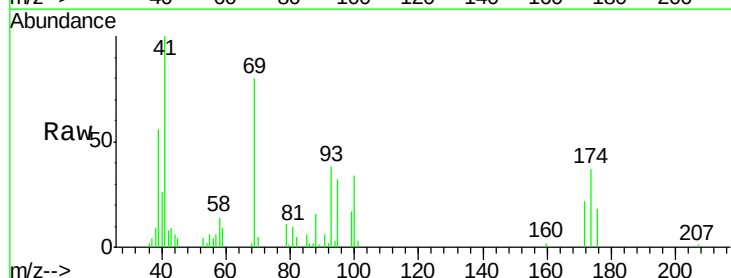
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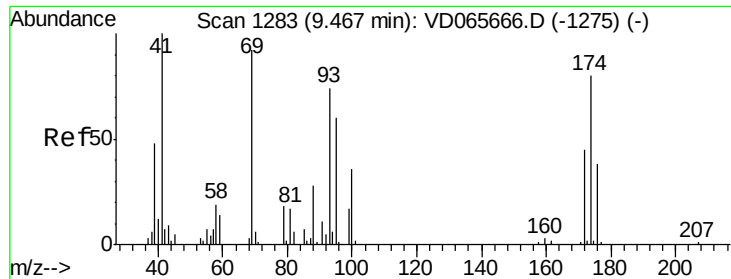
MMDadoda
4/23/2020 1:31:39 PM



#48
Methyl methacrylate
Concen: 20.274 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. 0.00 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	21086		
69	85.1	69.5	104.3	
39	54.0	41.6	62.4	





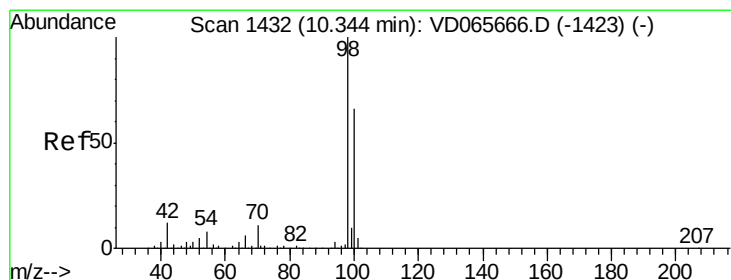
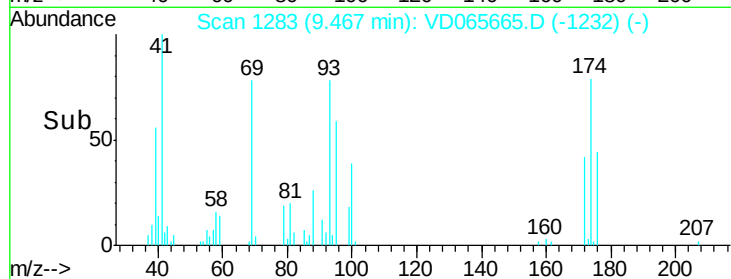
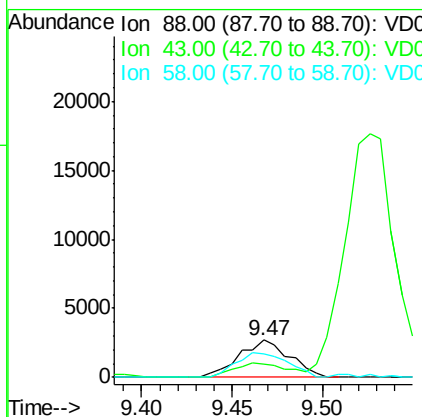
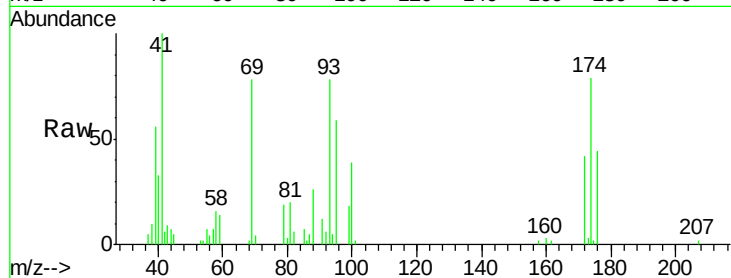
#49
1,4-Dioxane
Concen: 432.028 ug/l
RT: 9.47 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	88	Resp	5278
Ion	Ratio	Lower	Upper
88	100		
43	40.4	31.3	46.9
58	67.2	58.0	87.0

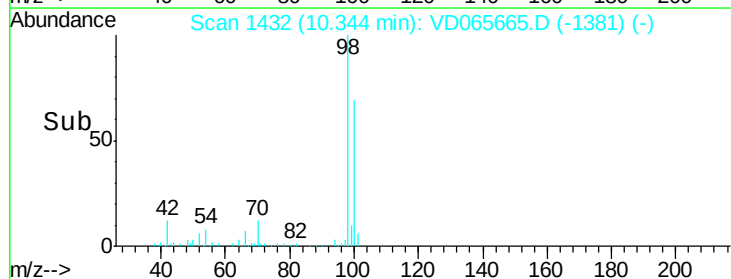
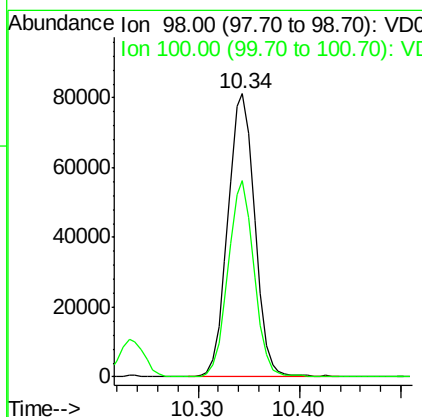
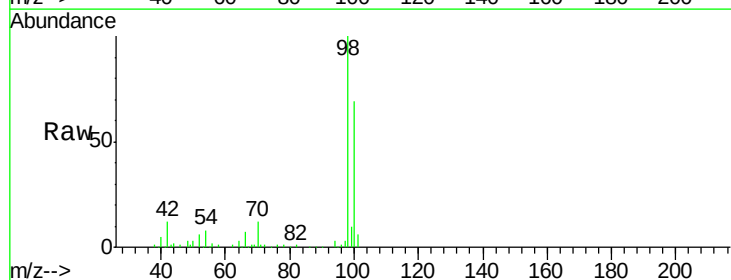
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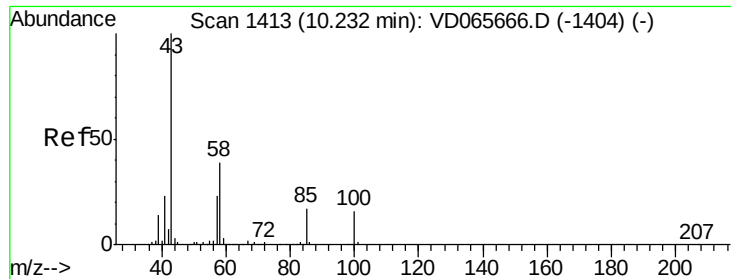
MMDadoda
4/23/2020 1:31:39 PM



#50
Toluene-d8
Concen: 20.168 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Tgt Ion	98	Resp	150346
Ion	Ratio	Lower	Upper
98	100		
100	66.7	52.8	79.2





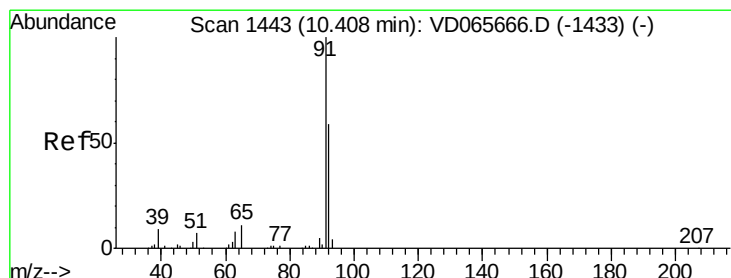
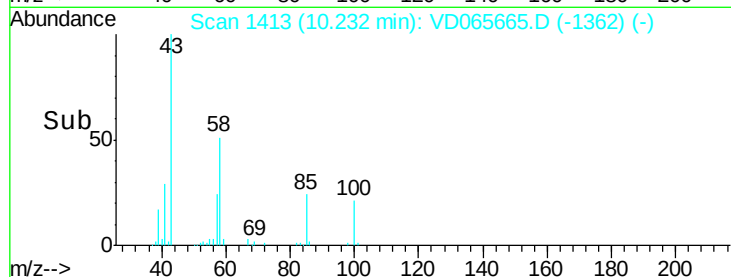
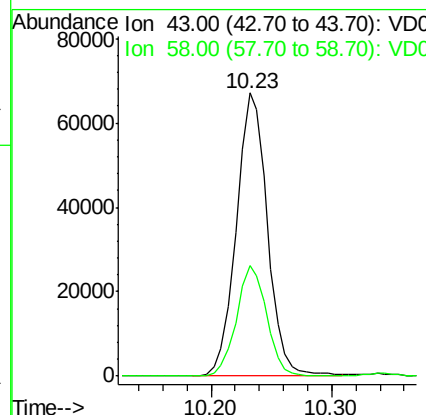
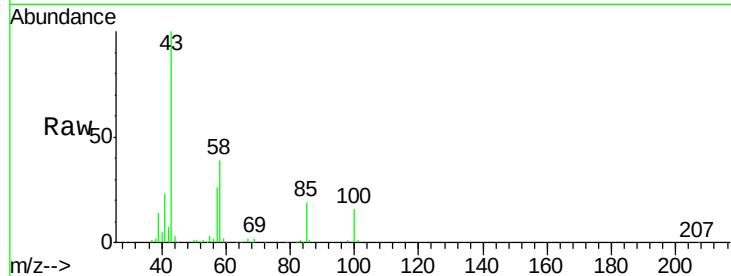
#51
 4-Methyl-2-Pentanone
 Concen: 109.329 ug/l
 RT: 10.23 min Scan# 1413
 Delta R.T. 0.00 min
 Lab File: VD065665.D
 Acq: 22 Apr 2020 14:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	43	Resp	120514
Ion Ratio	100	Lower	Upper
58	37.7	31.1	46.7

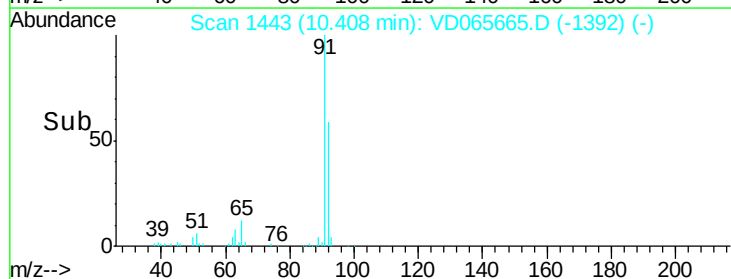
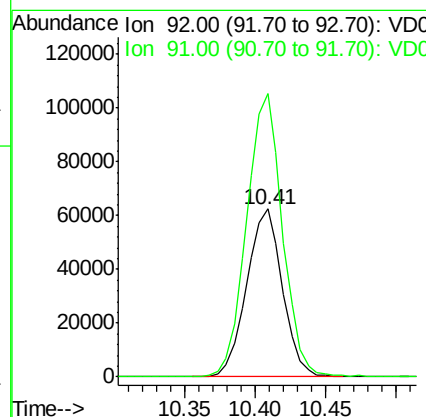
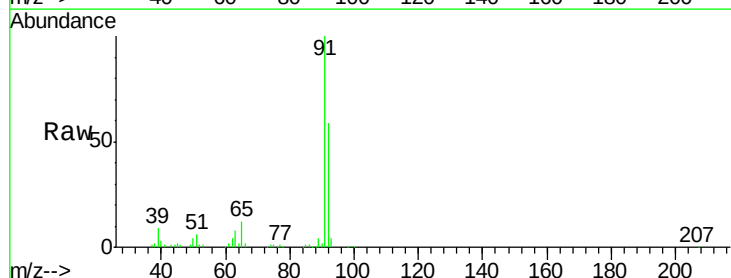
Manual Integrations
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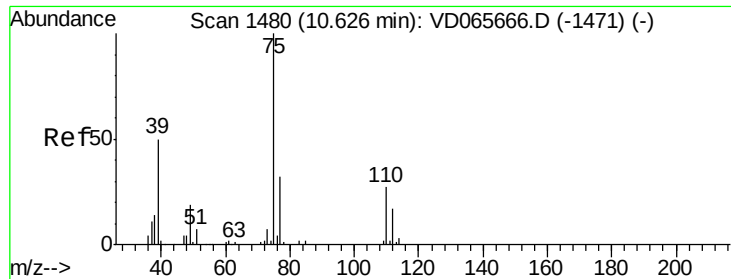
MMDadoda
 4/23/2020 1:31:39 PM



#52
 Toluene
 Concen: 20.484 ug/l
 RT: 10.41 min Scan# 1443
 Delta R.T. 0.00 min
 Lab File: VD065665.D
 Acq: 22 Apr 2020 14:37

Tgt Ion	92	Resp	110700
Ion Ratio	100	Lower	Upper
91	169.8	135.9	203.9





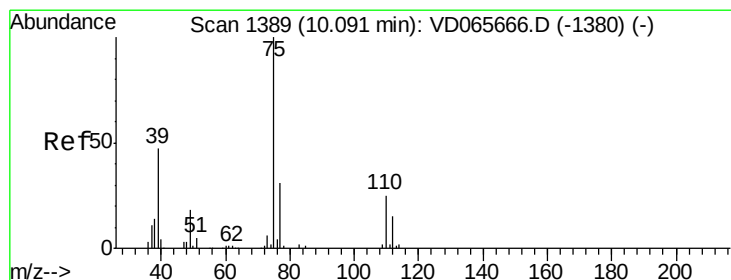
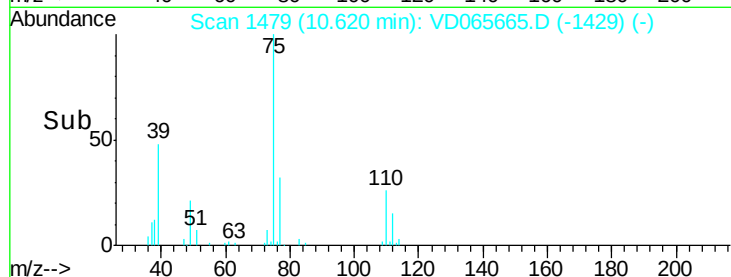
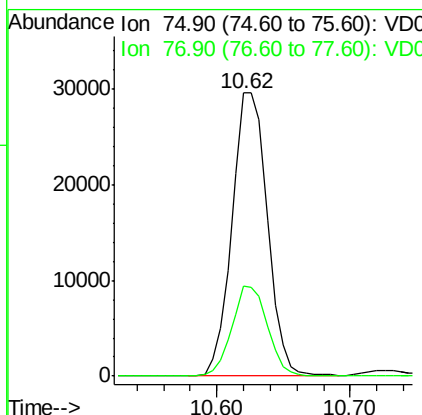
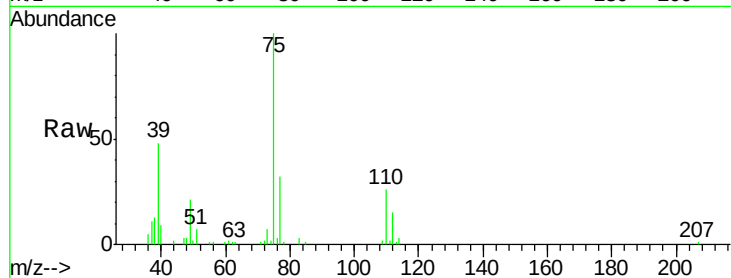
#53
 t-1,3-Dichloropropene
 Concen: 20.433 ug/l
 RT: 10.62 min Scan# 1479
 Delta R.T. -0.01 min
 Lab File: VD065665.D
 Acq: 22 Apr 2020 14:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion: 75 Resp: 54538
 Ion Ratio Lower Upper
 75 100
 77 31.8 25.8 38.8

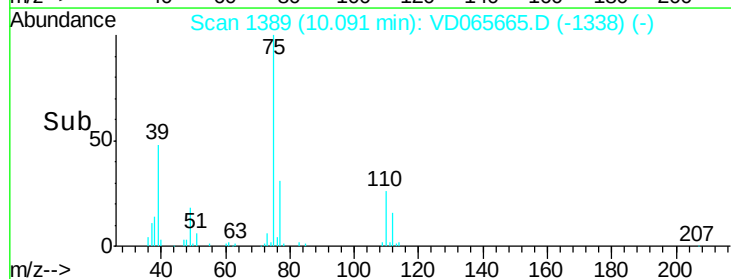
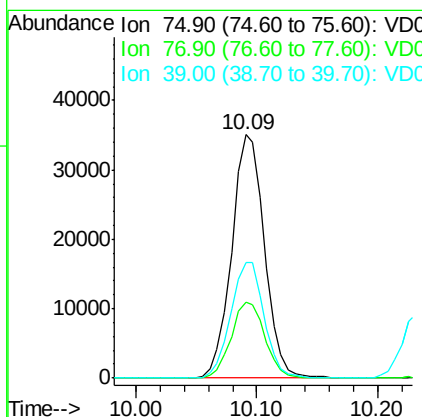
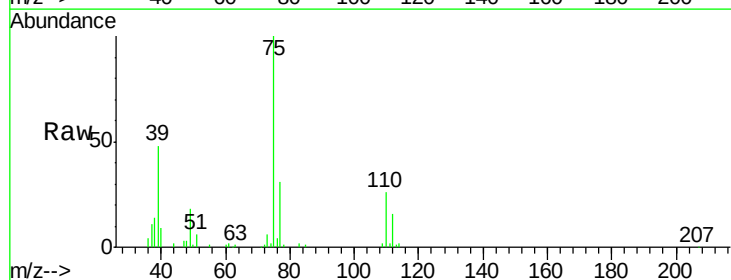
Manual Integrations
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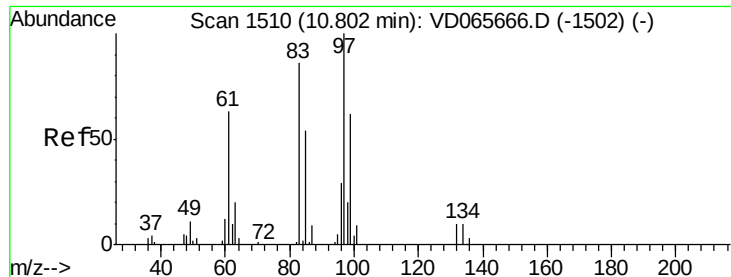
MMDadoda
 4/23/2020 1:31:39 PM



#54
 cis-1,3-Dichloropropene
 Concen: 20.296 ug/l
 RT: 10.09 min Scan# 1389
 Delta R.T. 0.00 min
 Lab File: VD065665.D
 Acq: 22 Apr 2020 14:37

Tgt Ion: 75 Resp: 66255
 Ion Ratio Lower Upper
 75 100
 77 31.1 25.2 37.8
 39 47.6 37.9 56.9





#55

1,1,2-Trichloroethane

Concen: 21.548 ug/l

RT: 10.80 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VD065665.D

Acq: 22 Apr 2020 14:37

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 97 Resp: 33393

Ion Ratio Lower Upper

97 100

83 83.0 68.5 102.7

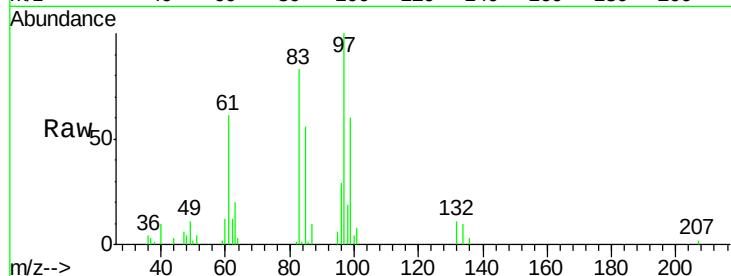
85 55.8 43.0 64.6

99 60.4 49.8 74.8

Manual Integrations
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MMDadoda

4/23/2020 1:31:39 PM

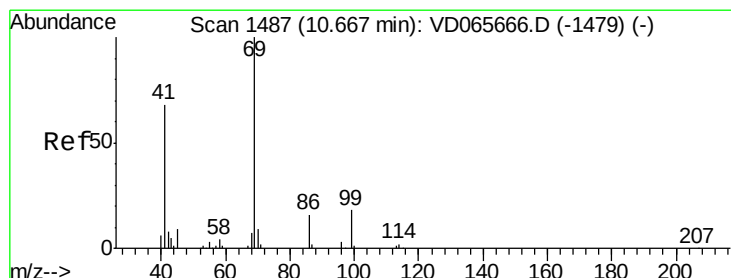
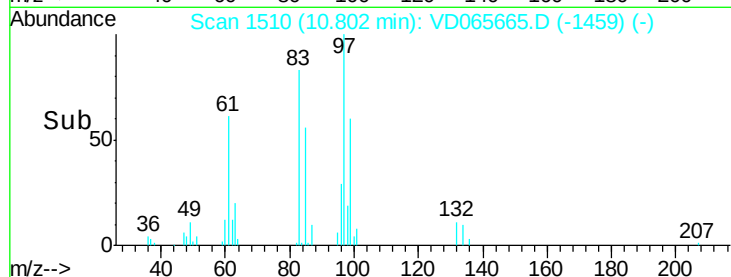
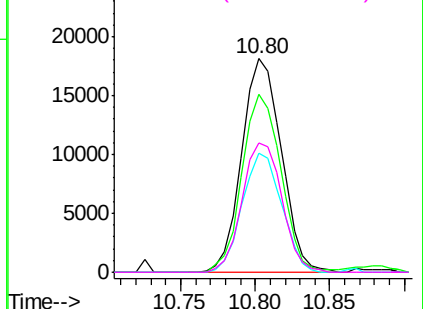


Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC



#56

Ethyl methacrylate

Concen: 19.887 ug/l

RT: 10.67 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VD065665.D

Acq: 22 Apr 2020 14:37

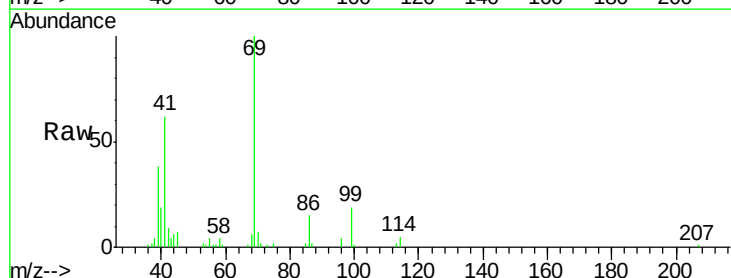
Tgt Ion: 69 Resp: 33072

Ion Ratio Lower Upper

69 100

41 70.3 58.3 87.5

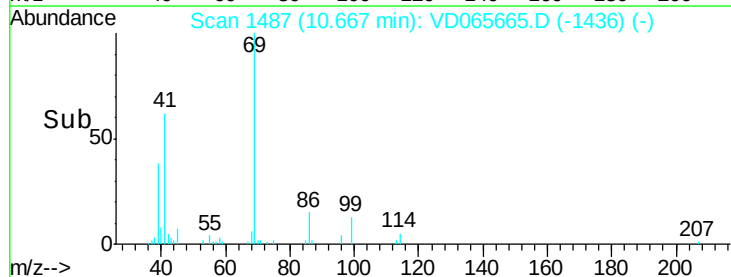
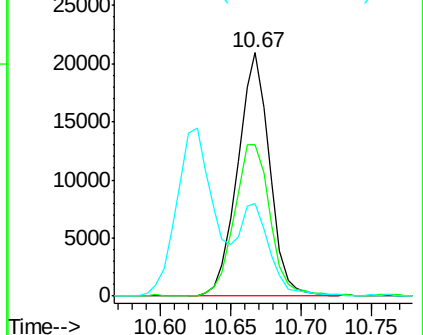
39 36.2 29.5 44.3

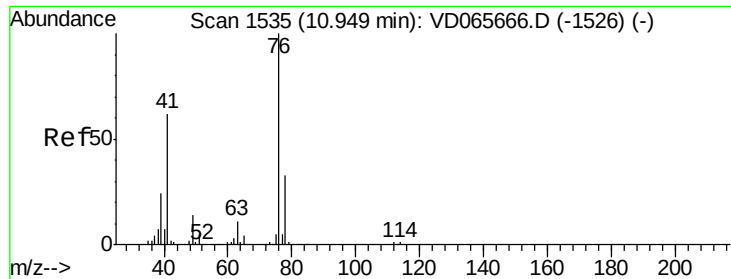


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC





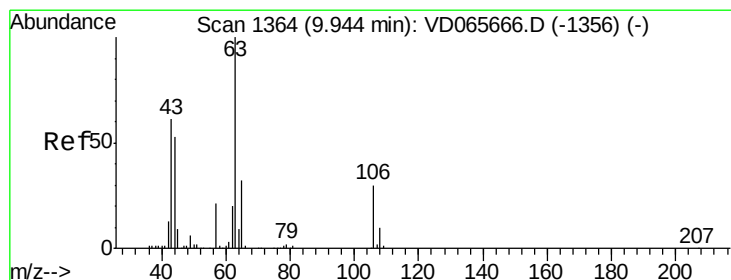
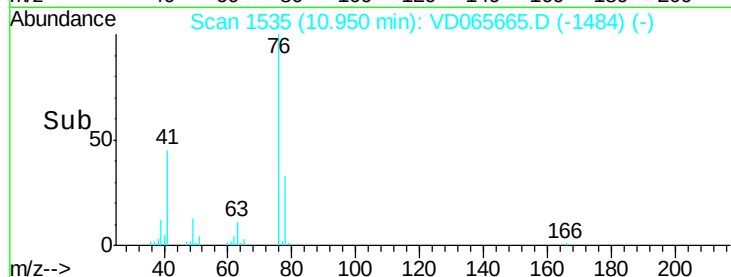
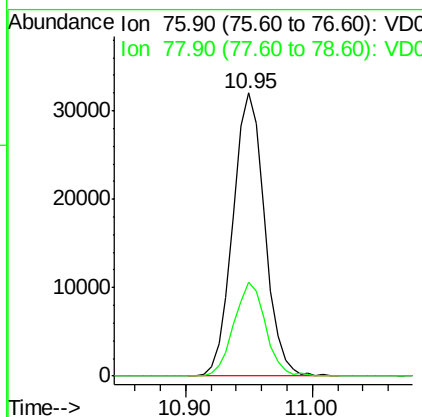
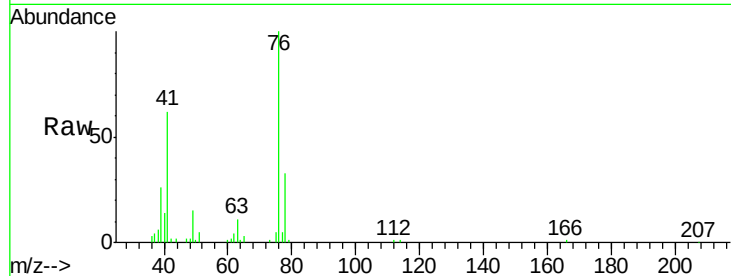
#57
 1,3-Dichloropropane
 Concen: 20.958 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. 0.00 min
 Lab File: VD065665.D
 Acq: 22 Apr 2020 14:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.9	25.9	38.9

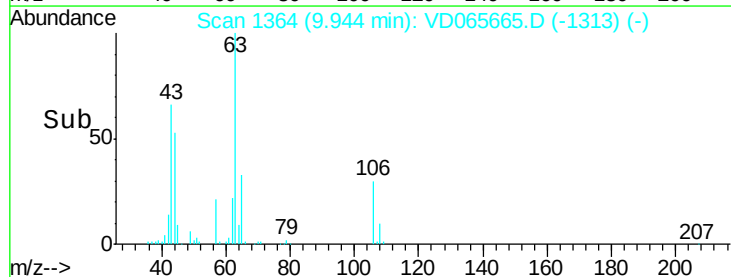
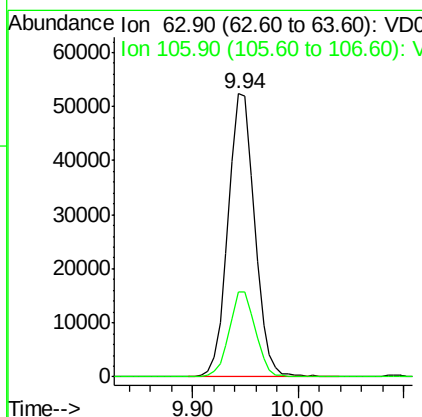
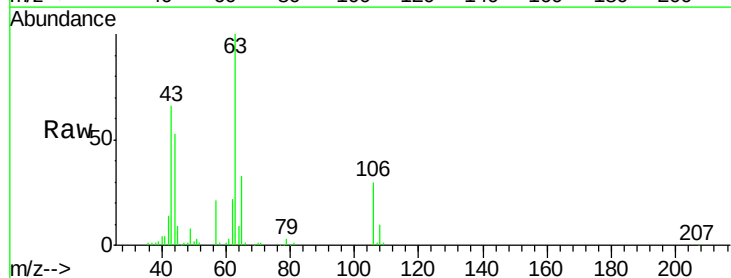
Manual Integrations
 APPROVED

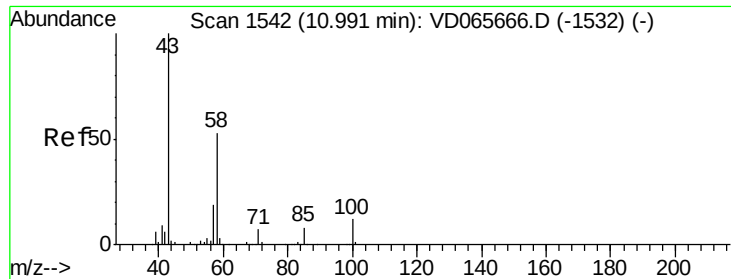
MMDadoda
 4/23/2020 1:31:39 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 103.719 ug/l
 RT: 9.94 min Scan# 1364
 Delta R.T. 0.00 min
 Lab File: VD065665.D
 Acq: 22 Apr 2020 14:37

Tgt Ion	Ratio	Lower	Upper
63	100		
106	29.5	23.7	35.5





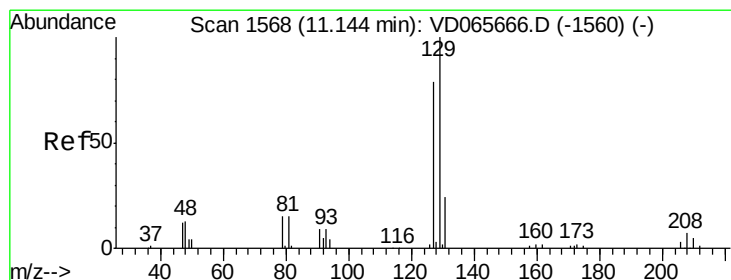
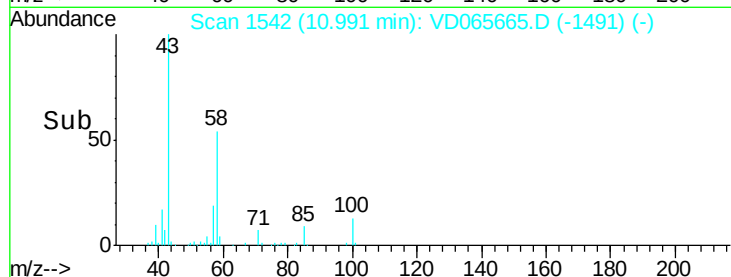
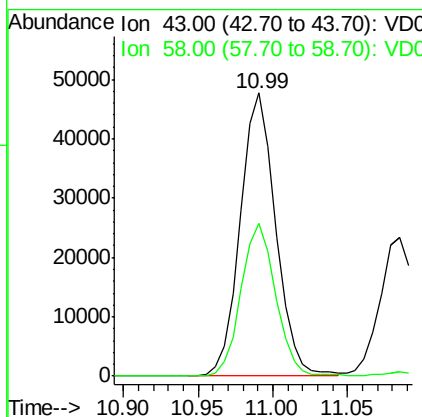
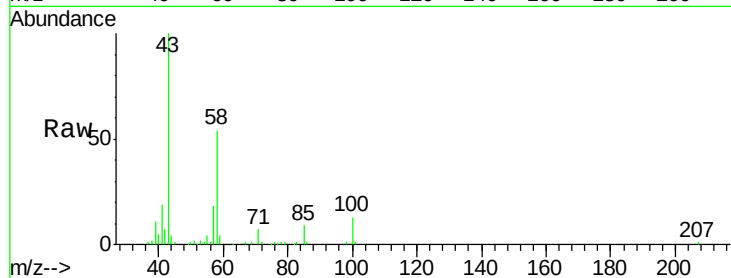
#59
2-Hexanone
Concen: 105.319 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	43	Resp	78768
Ion Ratio	100	Lower	Upper
58	52.6	26.3	78.9

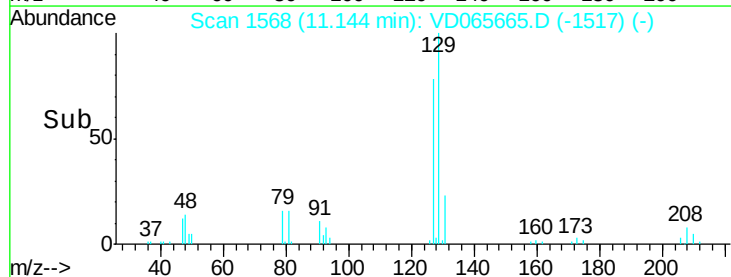
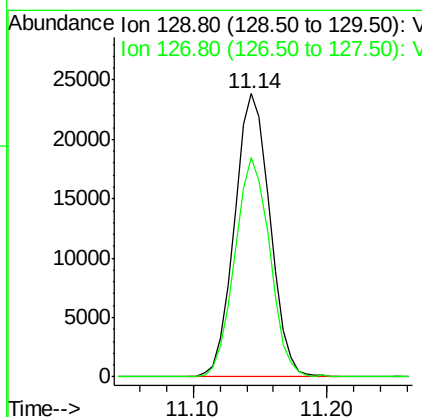
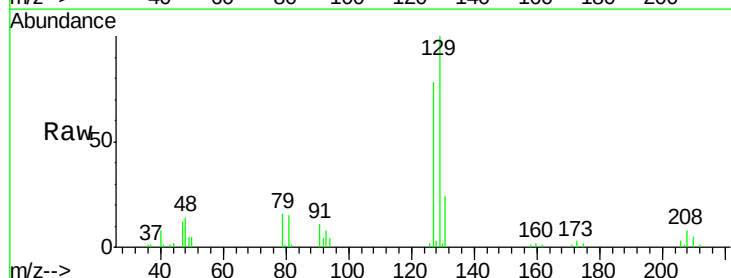
Manual Integrations
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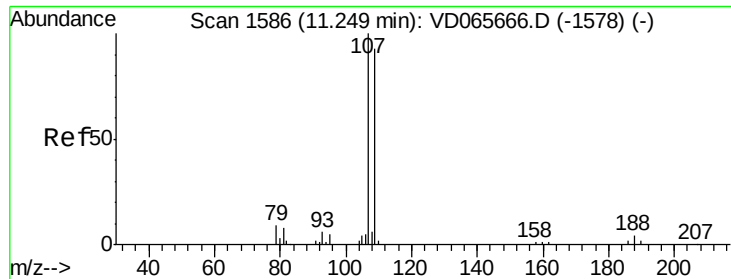
MMDadoda
4/23/2020 1:31:39 PM



#60
Dibromochloromethane
Concen: 21.312 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Tgt Ion	129	Resp	43875
Ion Ratio	100	Lower	Upper
127	76.6	38.5	115.5





#61

1,2-Dibromoethane

Concen: 21.268 ug/l

RT: 11.25 min Scan# 1586

Delta R.T. 0.00 min

Lab File: VD065665.D

Acq: 22 Apr 2020 14:37

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion:107 Resp: 31885

Ion Ratio Lower Upper

107 100

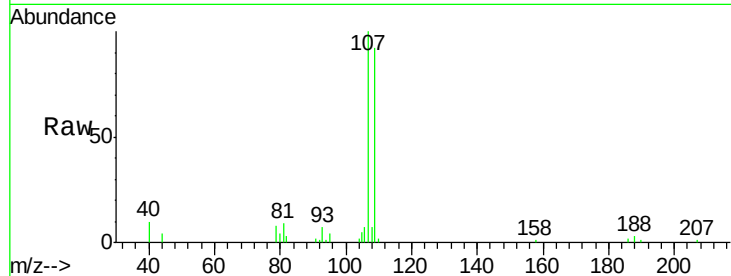
109 92.4 76.4 114.6

Manual Integrations

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.25

20000

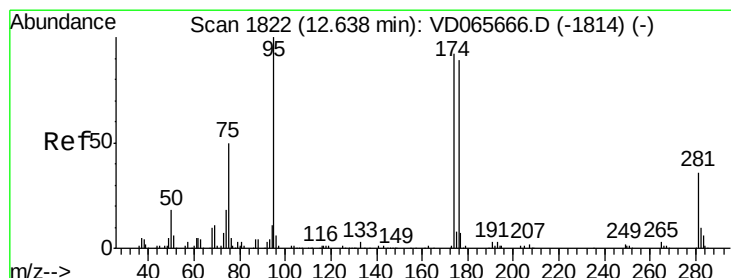
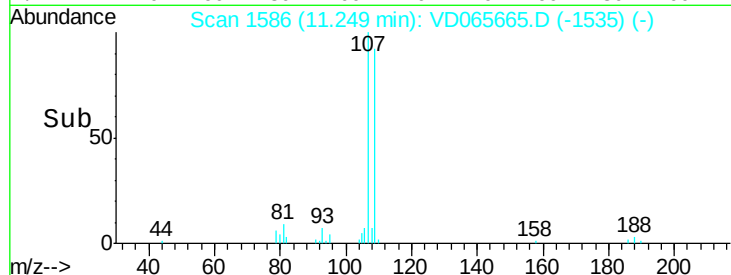
15000

10000

5000

0

Time--> 11.15 11.20 11.25 11.30



#62

4-Bromofluorobenzene

Concen: 18.879 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD065665.D

Acq: 22 Apr 2020 14:37

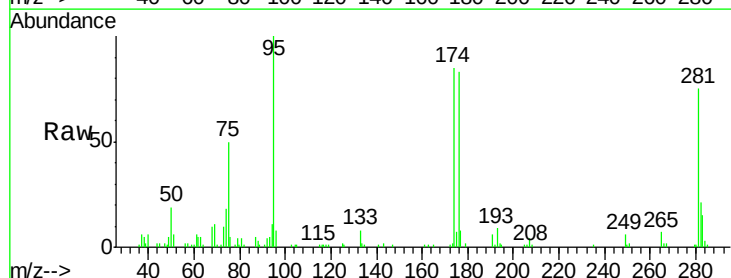
Tgt Ion: 95 Resp: 46358

Ion Ratio Lower Upper

95 100

174 92.1 0.0 186.4

176 89.2 0.0 178.4



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.64

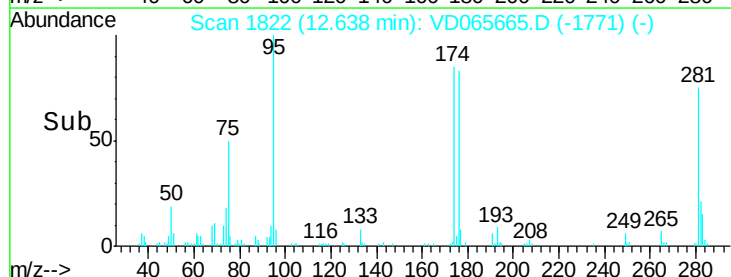
30000

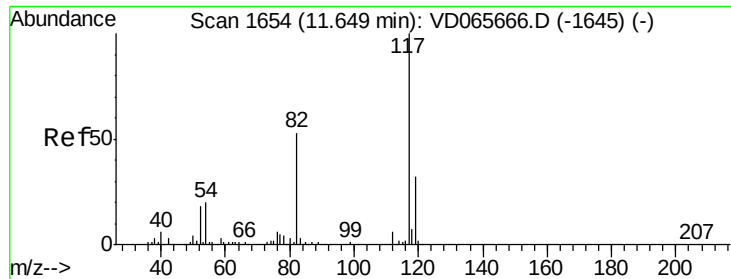
20000

10000

0

Time--> 12.60 12.65 12.70





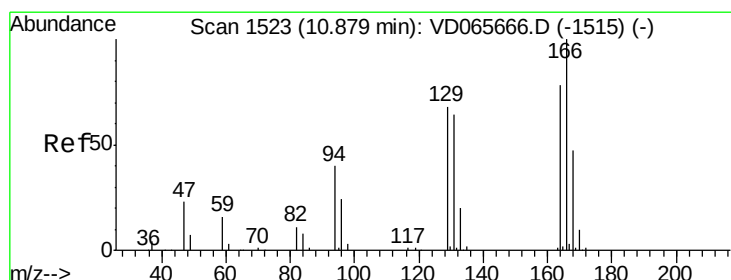
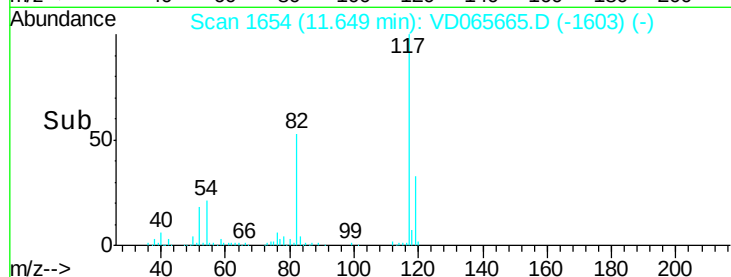
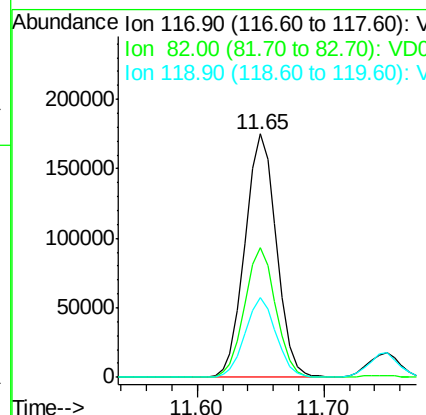
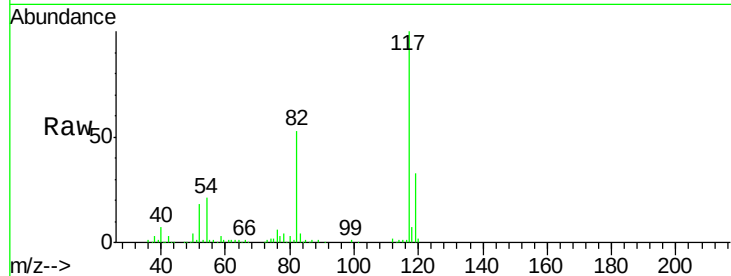
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.2	42.7	64.1
119	32.9	25.9	38.9

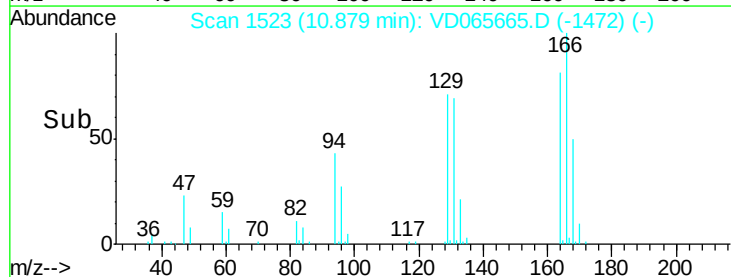
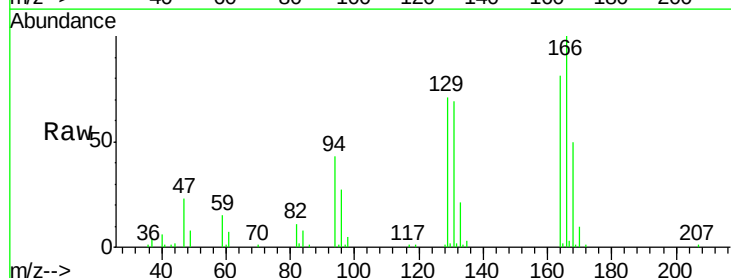
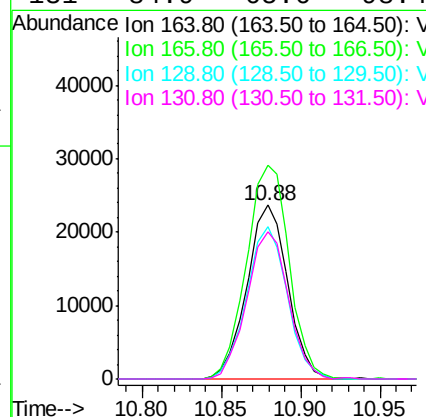
Manual Integrations
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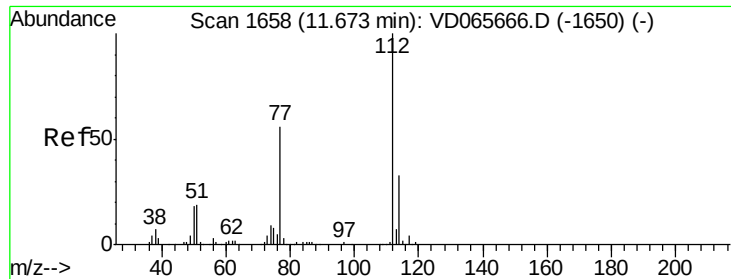
MMDadoda
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#64
Tetrachloroethene
Concen: 20.173 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.0	102.0	153.0
129	87.4	69.3	103.9
131	84.9	65.6	98.4





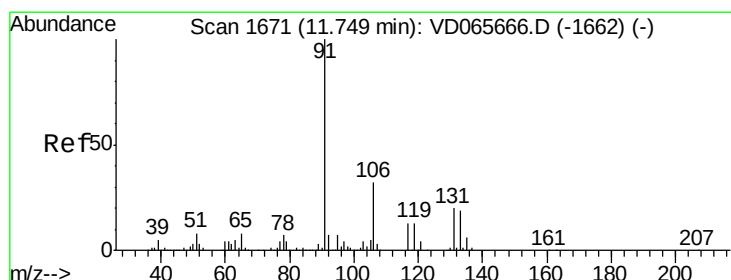
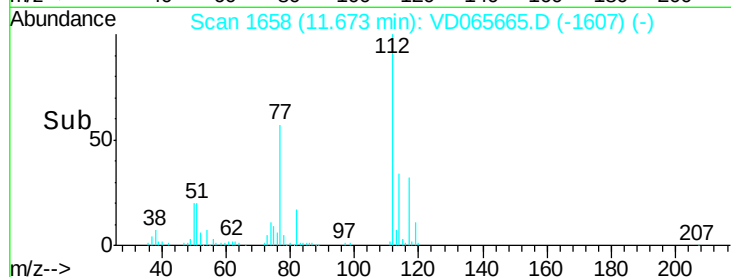
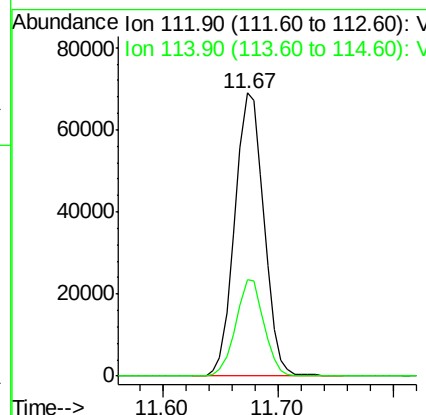
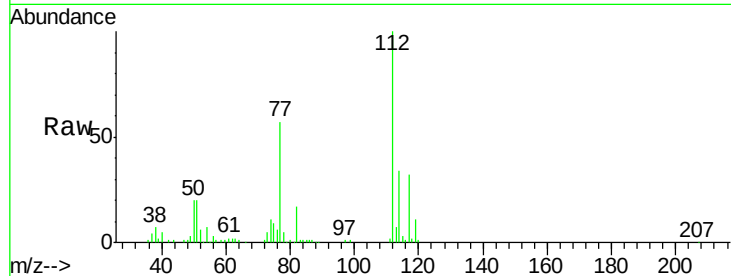
#65
Chlorobenzene
Concen: 20.765 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. 0.00 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
112	100		
114	34.1	26.2	39.2

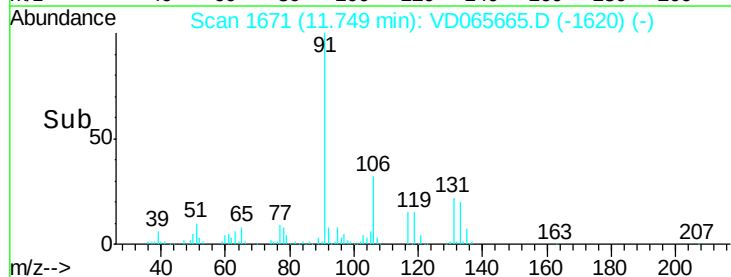
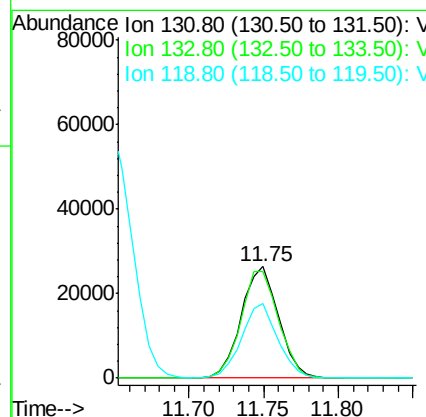
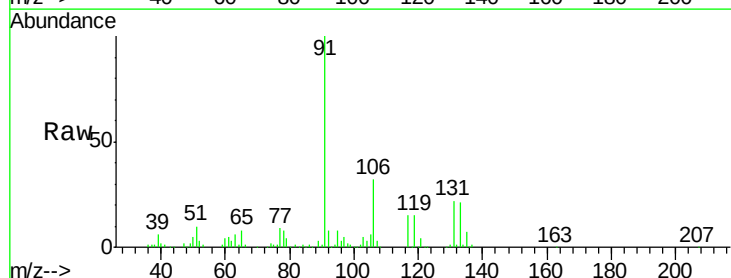
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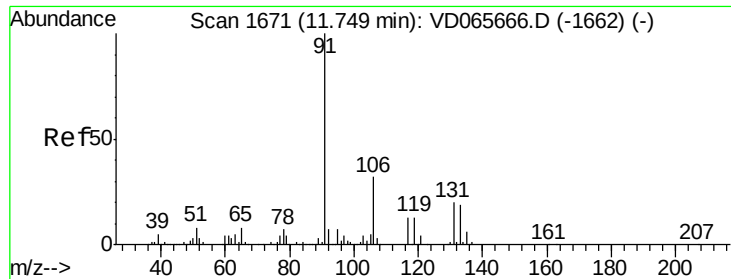
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.478 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Tgt Ion	Ratio	Lower	Upper
131	100		
133	98.1	48.6	145.8
119	65.6	32.3	96.9





#67

Ethyl Benzene

Concen: 20.334 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VD065665.D

Acq: 22 Apr 2020 14:37

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 201927

Ion Ratio Lower Upper

91 100

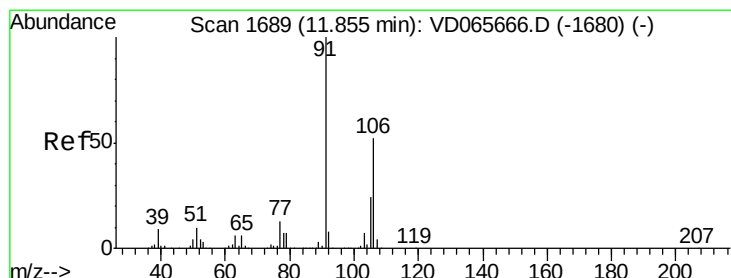
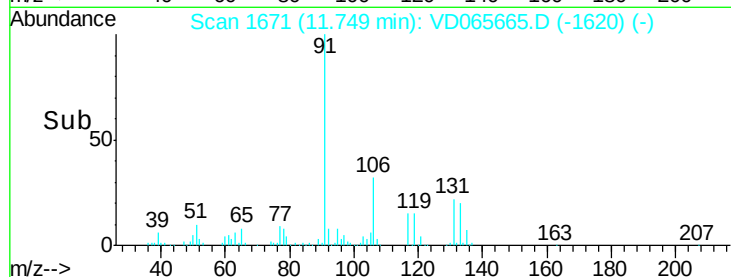
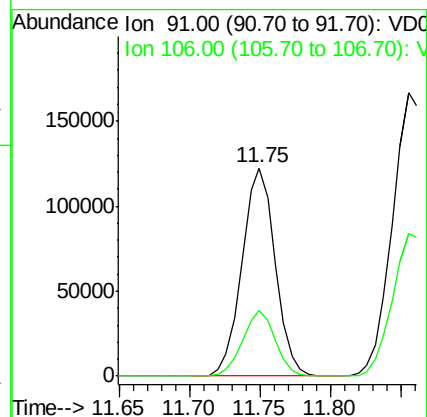
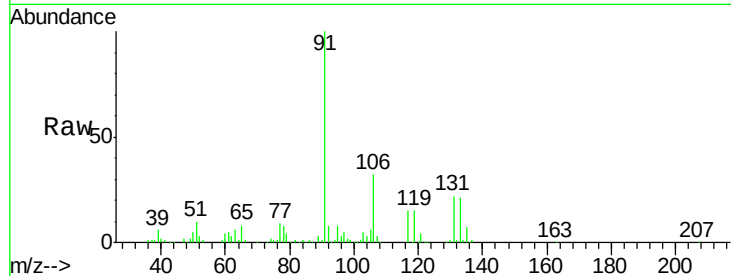
106 31.6 25.3 37.9

Manual Integrations

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#68

m/p-Xylenes

Concen: 41.986 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VD065665.D

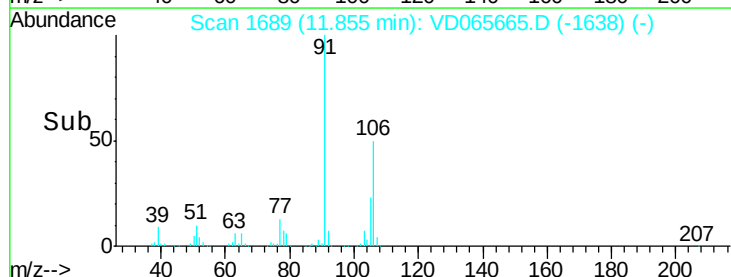
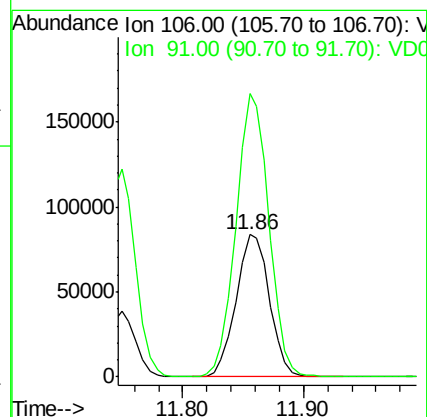
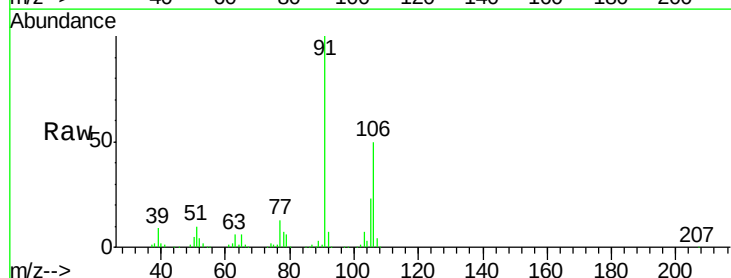
Acq: 22 Apr 2020 14:37

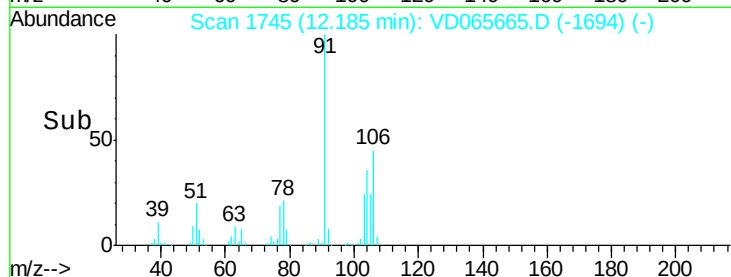
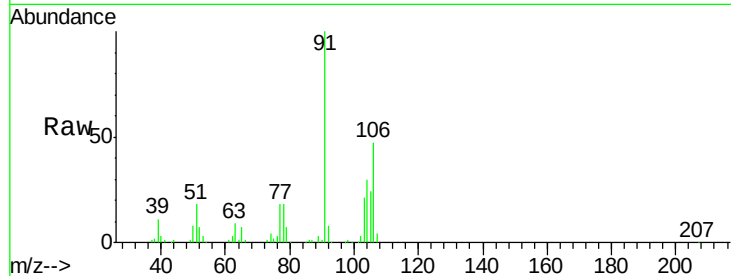
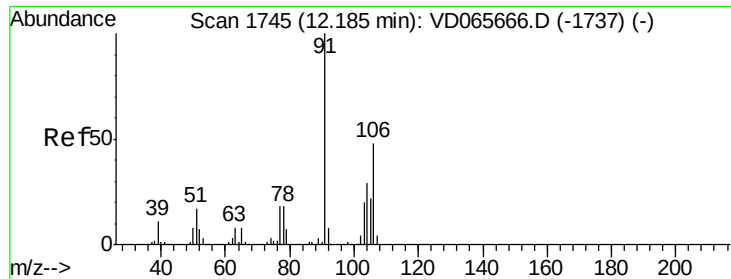
Tgt Ion: 106 Resp: 161281

Ion Ratio Lower Upper

106 100

91 196.2 155.8 233.6





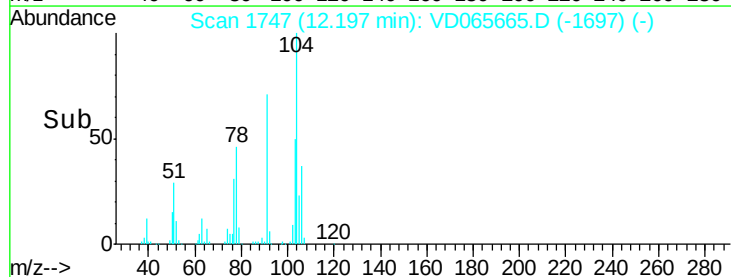
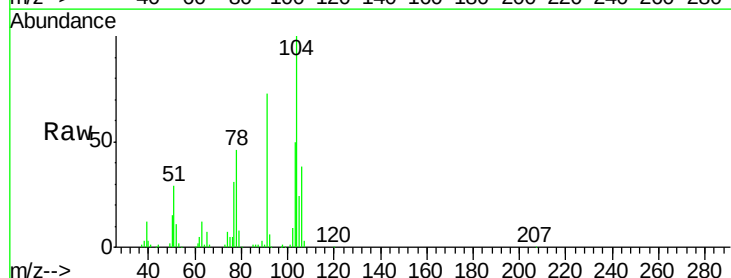
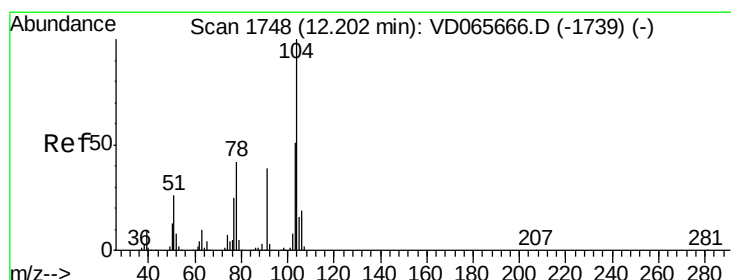
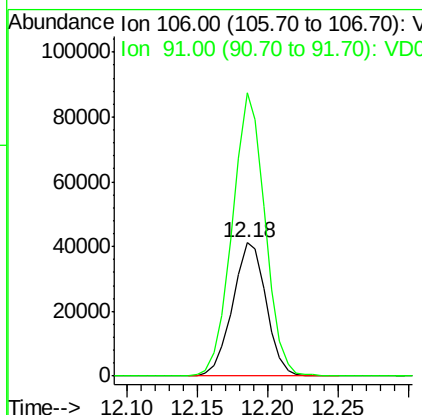
#69
o-Xylene
Concen: 20.444 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Tot Ion:106 Resp: 68413
Ion Ratio Lower Upper
106 100
91 206.6 103.6 310.9

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

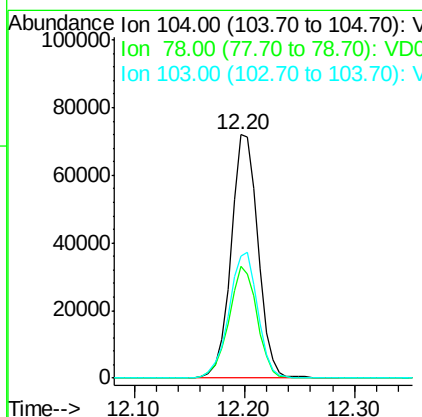
Manual Integrations
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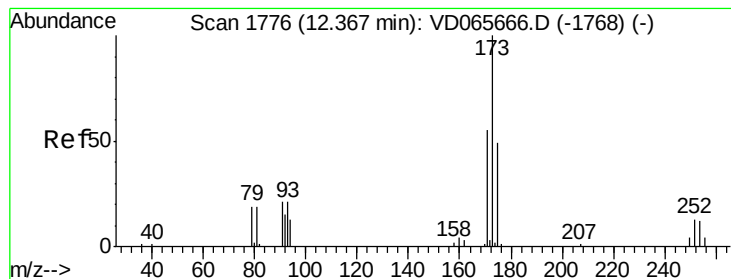
MMDadoda
4/23/2020 1:31:39 PM



#70
Styrene
Concen: 20.857 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. -0.01 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Tgt Ion:104 Resp: 123676
Ion Ratio Lower Upper
104 100
78 48.1 37.4 56.0
103 55.2 43.6 65.4





#71

Bromoform

Concen: 21.943 ug/l

RT: 12.37 min Scan# 1776

Delta R.T. 0.00 min

Lab File: VD065665.D

Acq: 22 Apr 2020 14:37

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion:173 Resp: 27294

Ion Ratio Lower Upper

173 100

175 46.8 23.9 71.7

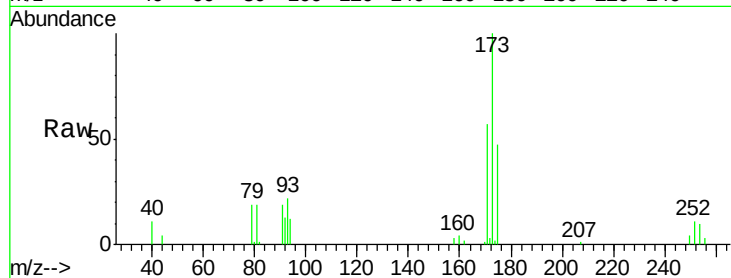
254 0.0 0.0 0.0

Manual Integrations

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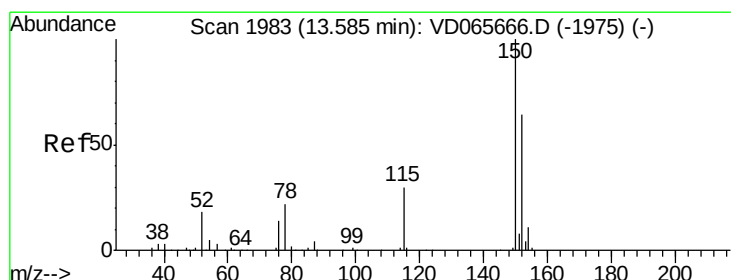
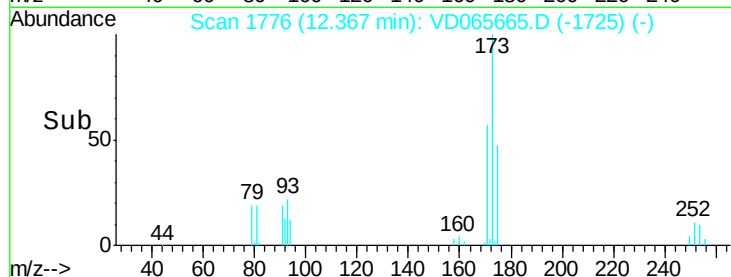
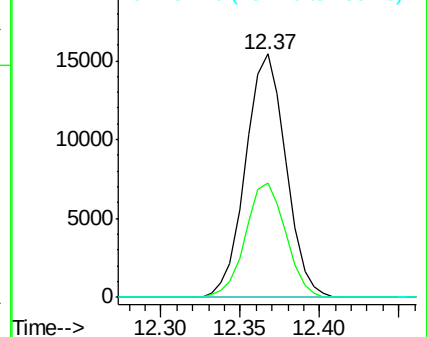
4/23/2020 1:31:39 PM



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: VD065665.D

Acq: 22 Apr 2020 14:37

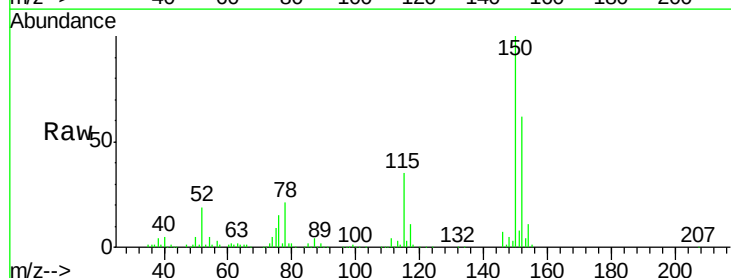
Tgt Ion:152 Resp: 159847

Ion Ratio Lower Upper

152 100

115 55.3 27.4 82.0

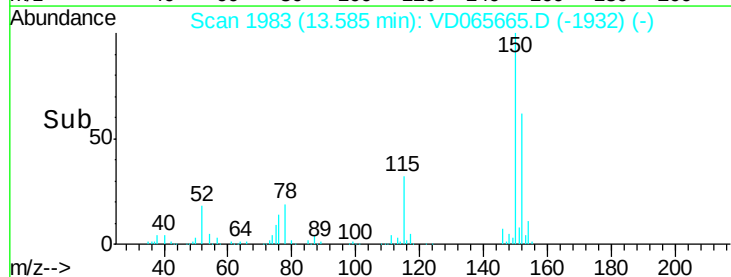
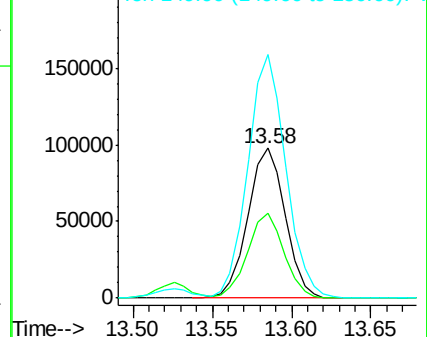
150 165.1 0.0 339.0

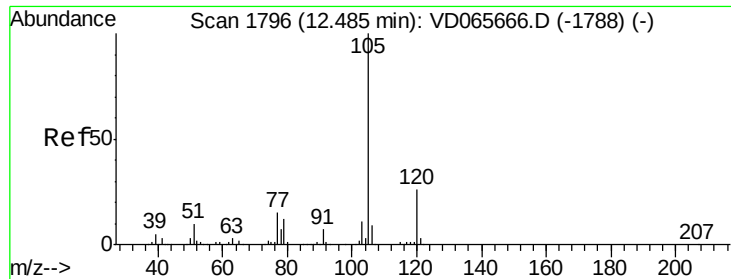


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 19.806 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD065665.D

Acq: 22 Apr 2020 14:37

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 184570

Ion Ratio Lower Upper

105 100

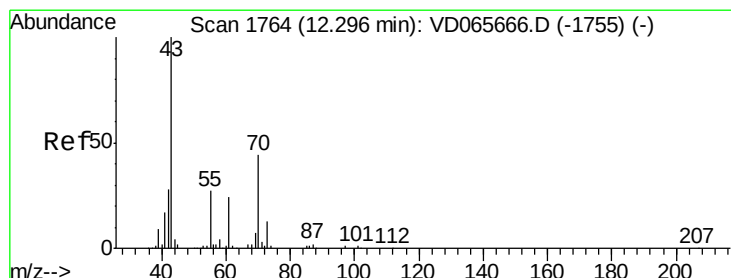
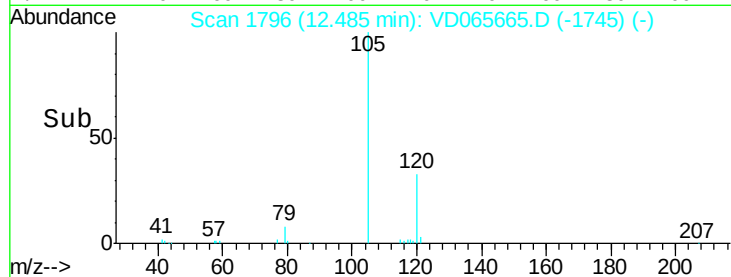
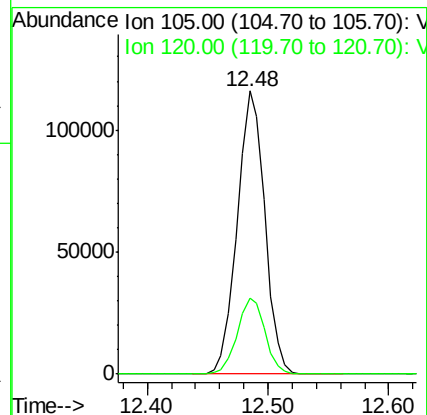
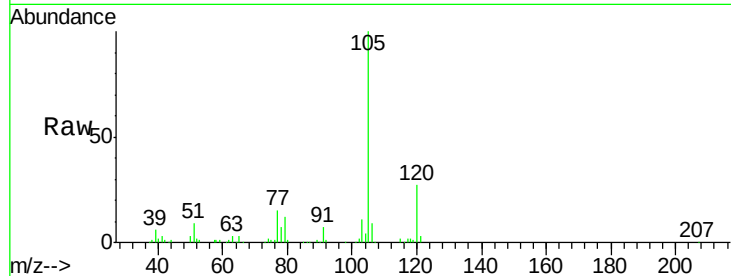
120 26.9 13.4 40.2

Manual Integrations

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#74

N-ethyl acetate

Concen: 20.758 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VD065665.D

Acq: 22 Apr 2020 14:37

Tgt Ion: 43 Resp: 40754

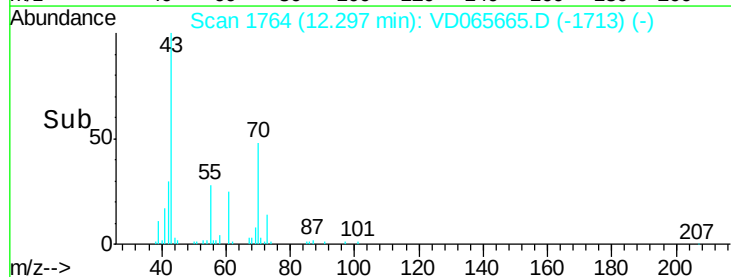
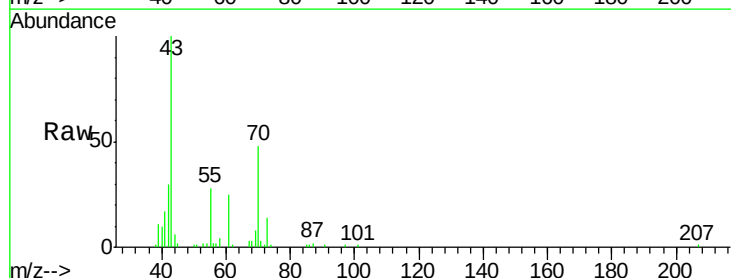
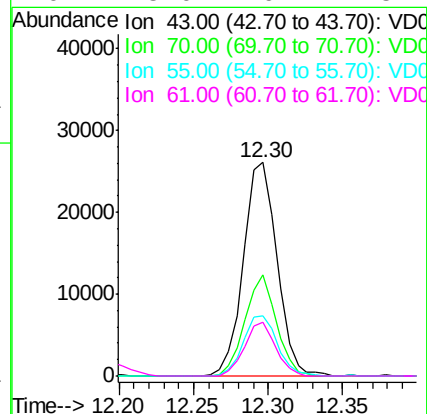
Ion Ratio Lower Upper

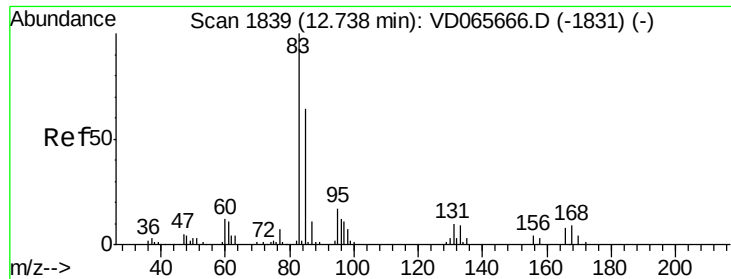
43 100

70 43.9 34.6 51.8

55 29.0 22.3 33.5

61 23.0 19.1 28.7





#75

1,1,2,2-Tetrachloroethane

Concen: 20.604 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD065665.D

Acq: 22 Apr 2020 14:37

Instrument :

MSVOA_D

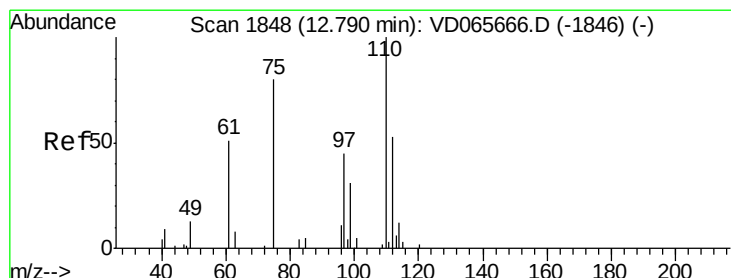
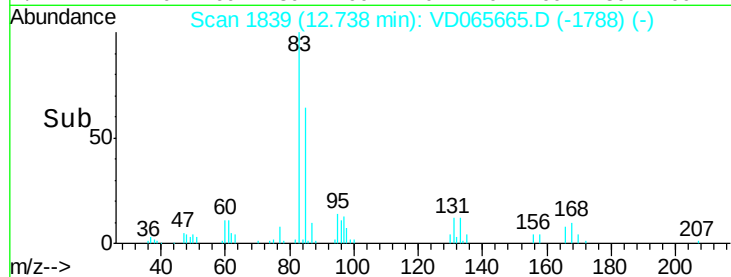
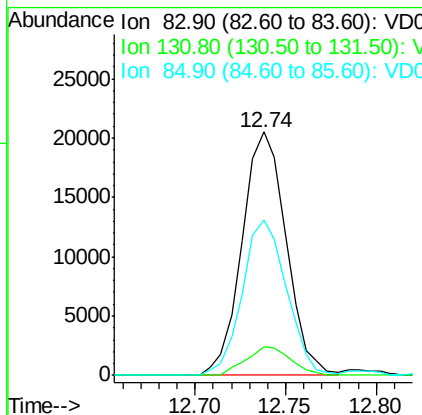
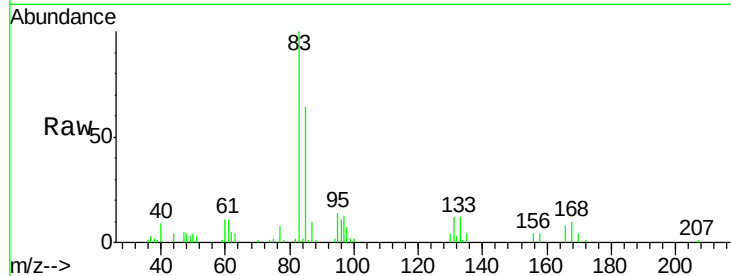
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	34757
Ion	Ratio	Lower	Upper
83	100		
131	11.8	5.7	17.1
85	63.8	31.9	95.9

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 19.966 ug/l m

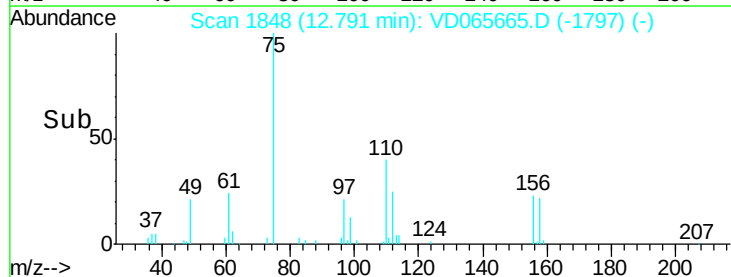
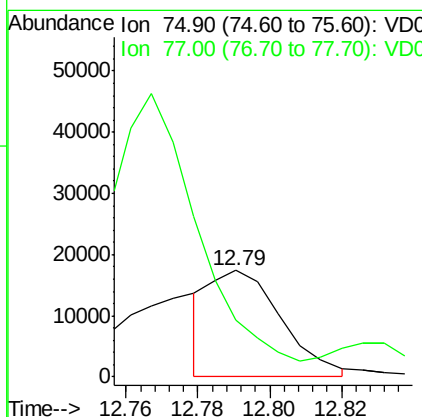
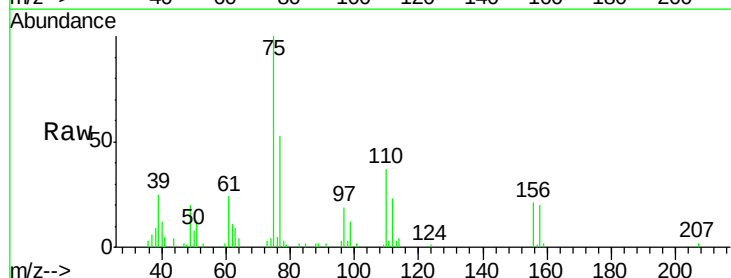
RT: 12.79 min Scan# 1848

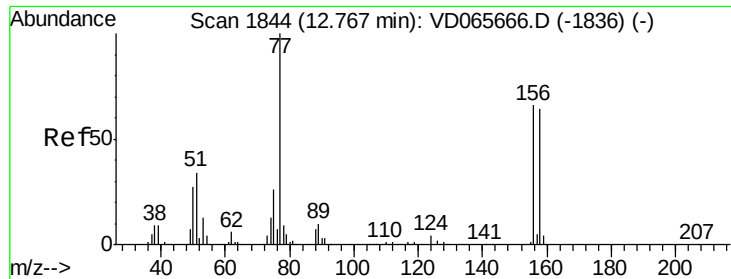
Delta R.T. 0.00 min

Lab File: VD065665.D

Acq: 22 Apr 2020 14:37

Tgt Ion:	75	Resp:	24072
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





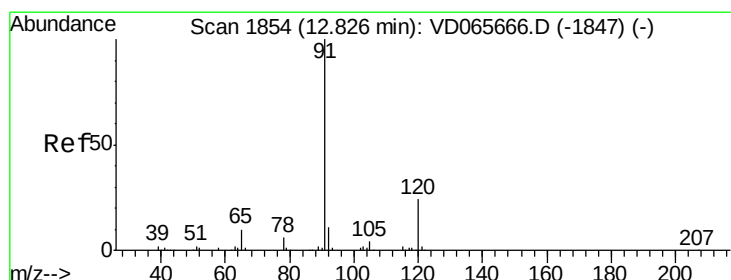
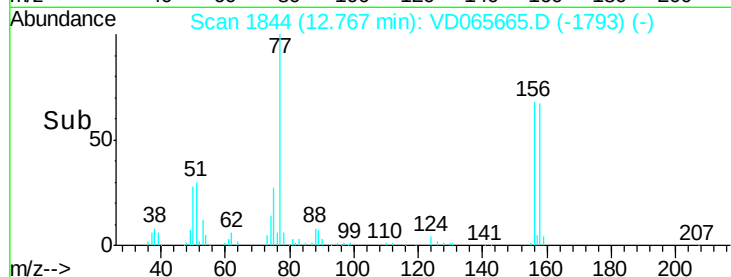
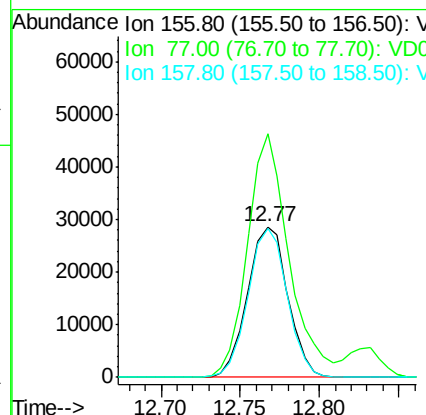
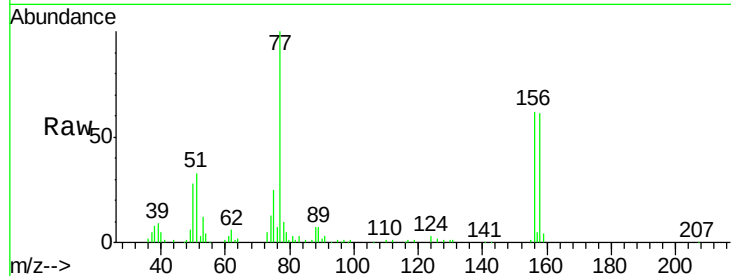
#77
Bromobenzene
Concen: 20.499 ug/l
RT: 12.77 min Scan# 1844
Delta R.T. 0.00 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	166.1	85.8	257.3	
158	96.3	49.9	149.6	

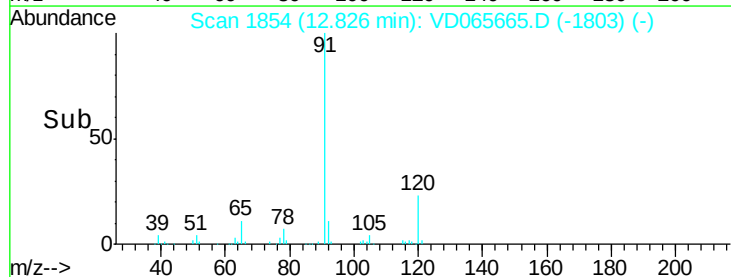
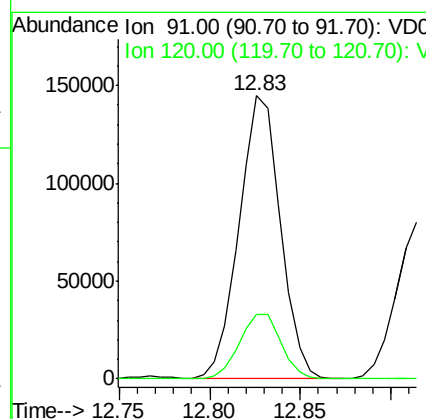
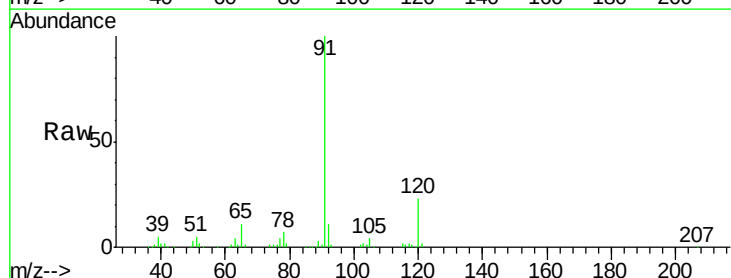
Manual Integrations
APPROVED

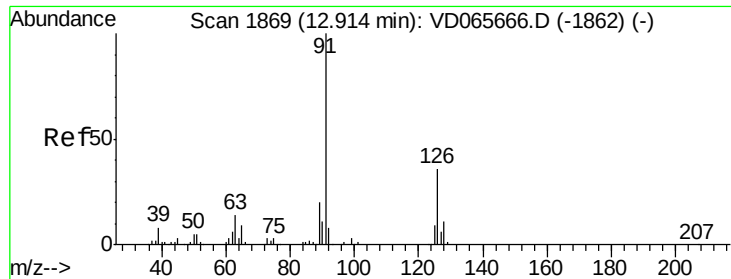
MMDadoda
4/23/2020 1:31:39 PM



#78
n-propylbenzene
Concen: 20.294 ug/l
RT: 12.83 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	23.4	11.9	35.7	





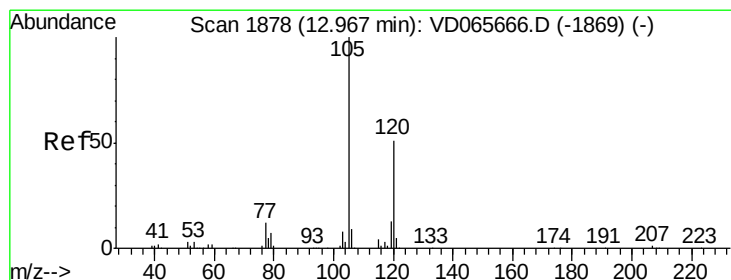
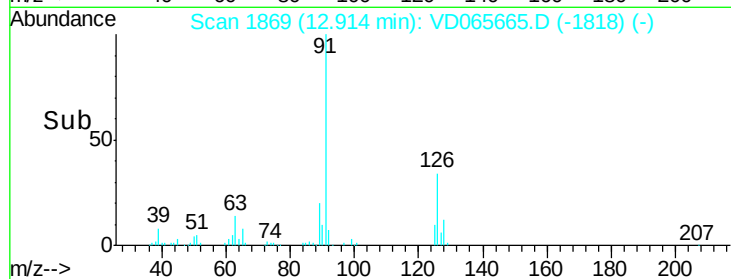
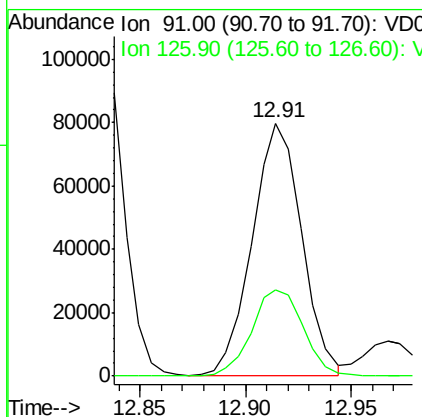
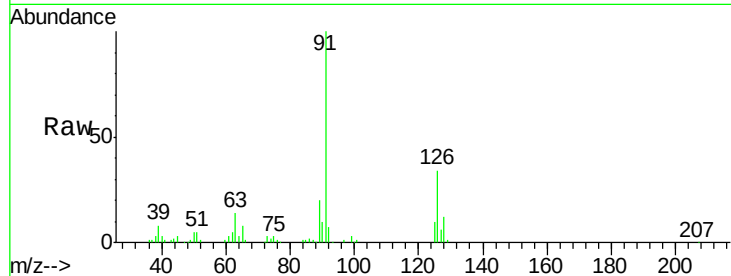
#79
2-Chlorotoluene
Concen: 20.270 ug/l
RT: 12.91 min Scan# 1869
Delta R.T. 0.00 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		130030		
126	35.7		17.8	53.3	

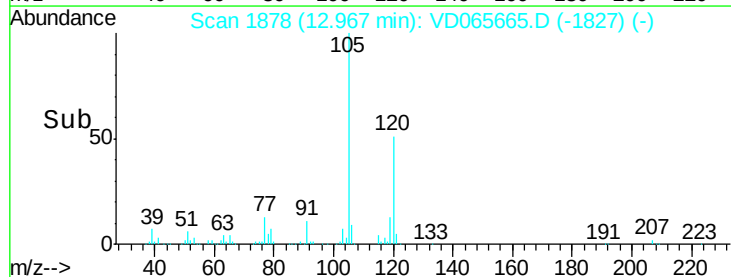
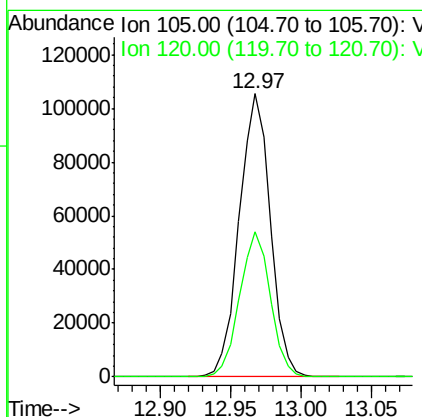
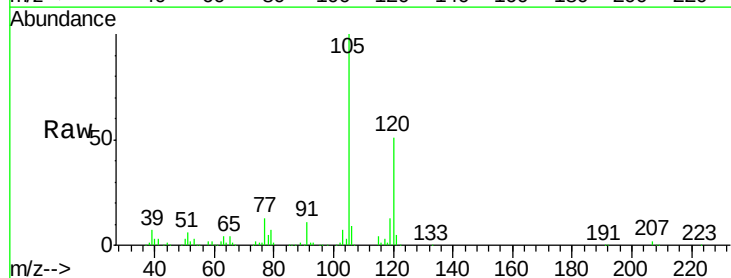
Manual Integrations
APPROVED

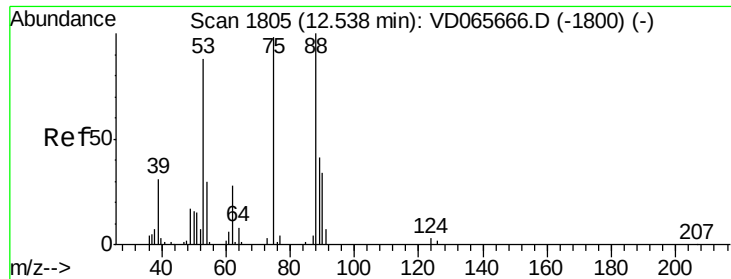
MMDadoda
4/23/2020 1:31:39 PM



#80
1,3,5-Trimethylbenzene
Concen: 20.610 ug/l
RT: 12.97 min Scan# 1878
Delta R.T. 0.00 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
105	100		162237		
120	50.5		25.4	76.0	





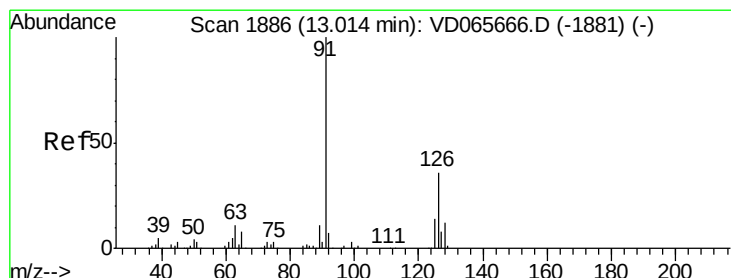
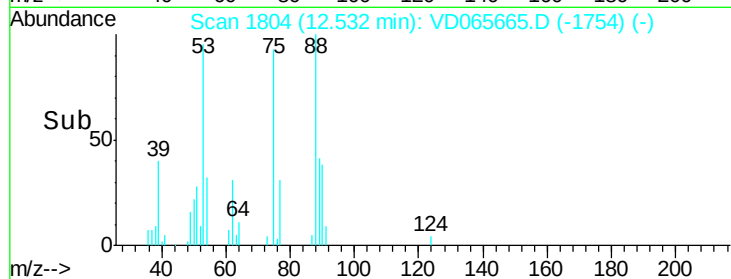
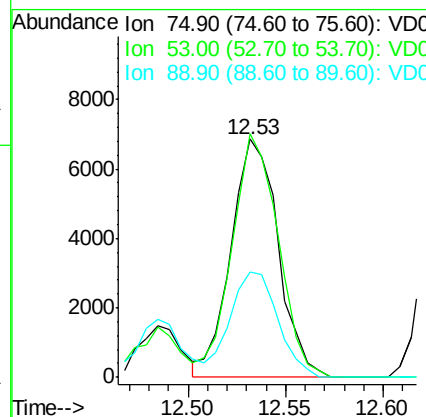
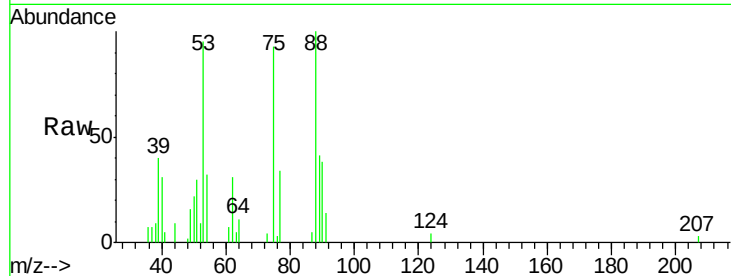
#81
trans-1,4-Dichloro-2-butene
Concen: 20.333 ug/l
RT: 12.53 min Scan# 1804
Delta R.T. -0.01 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
53	100.2	76.5	114.7
89	44.7	35.0	52.6

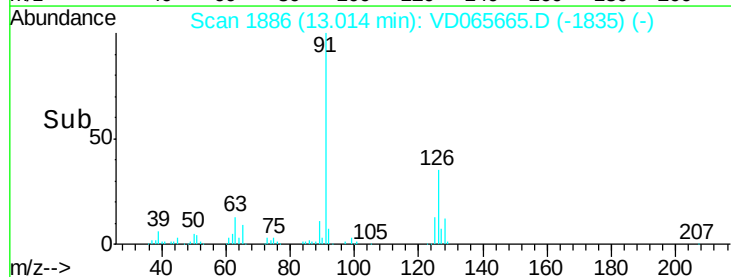
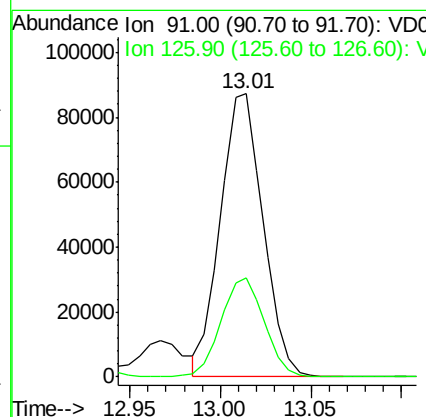
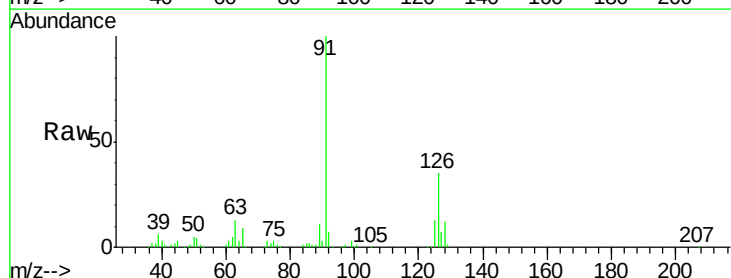
Manual Integrations
APPROVED

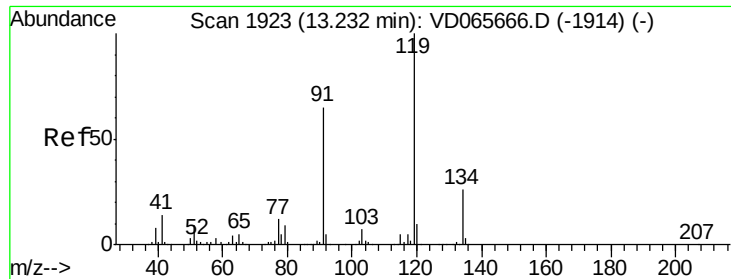
MMDadoda
4/23/2020 1:31:39 PM



#82
4-Chlorotoluene
Concen: 20.636 ug/l
RT: 13.01 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.4	17.7	53.1





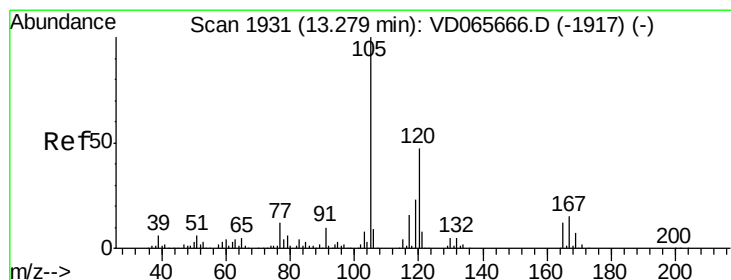
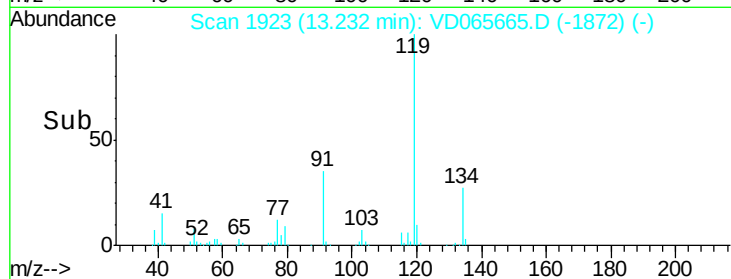
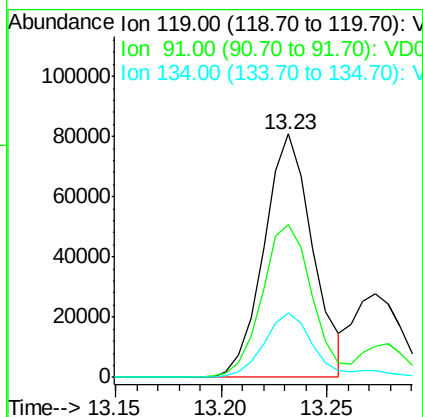
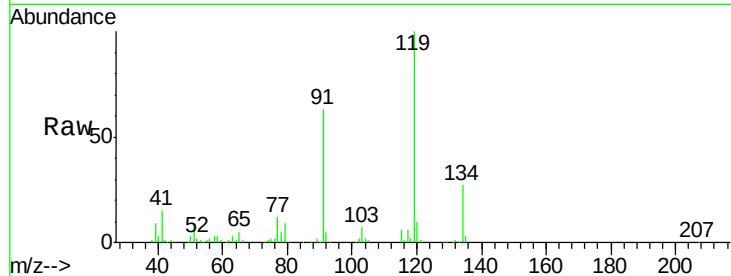
#83
 tert-Butylbenzene
 Concen: 19.706 ug/l
 RT: 13.23 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VD065665.D
 Acq: 22 Apr 2020 14:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
119	100		
91	64.7	31.9	95.7
134	26.1	14.1	42.3

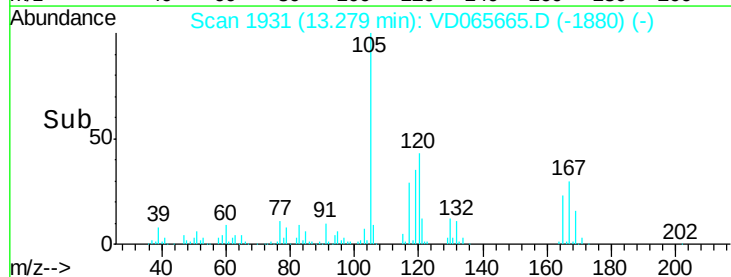
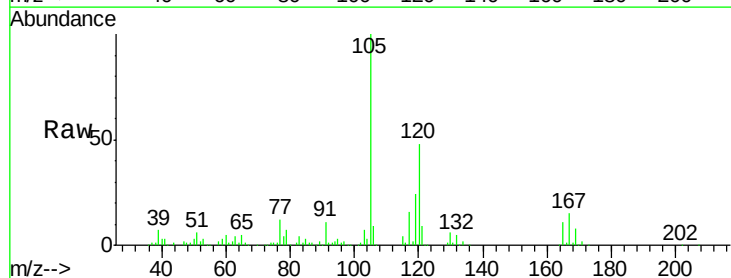
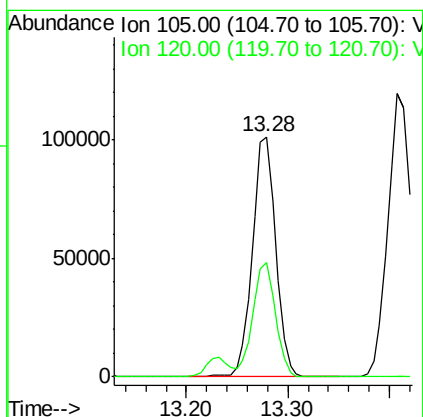
Manual Integrations
 APPROVED

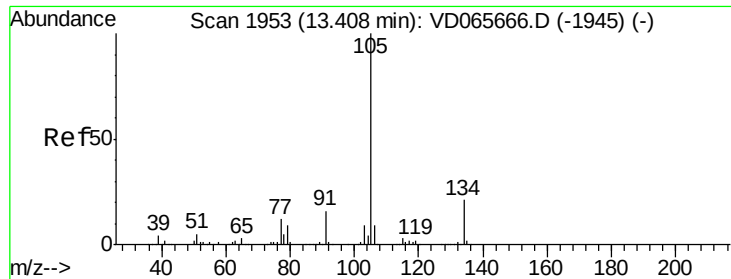
MMDadoda
 4/23/2020 1:31:39 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 20.691 ug/l
 RT: 13.28 min Scan# 1931
 Delta R.T. 0.00 min
 Lab File: VD065665.D
 Acq: 22 Apr 2020 14:37

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.9	23.5	70.6





#85

sec-Butylbenzene

Concen: 19.994 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD065665.D

Acq: 22 Apr 2020 14:37

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 188798

Ion Ratio Lower Upper

105 100

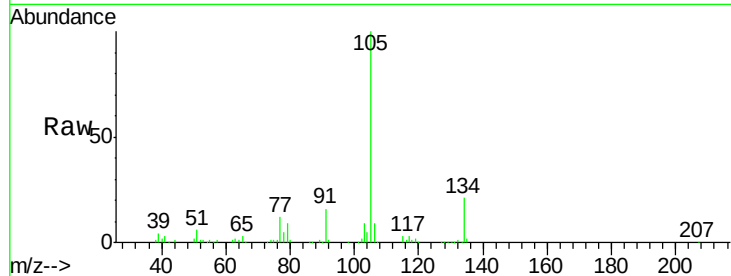
134 20.9 10.5 31.5

Manual Integrations

APPROVED

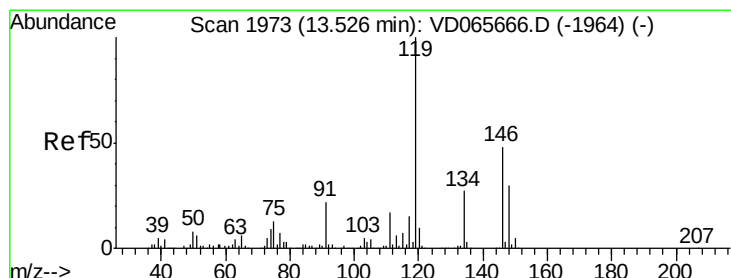
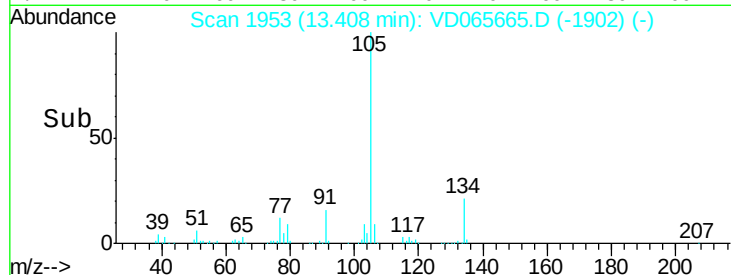
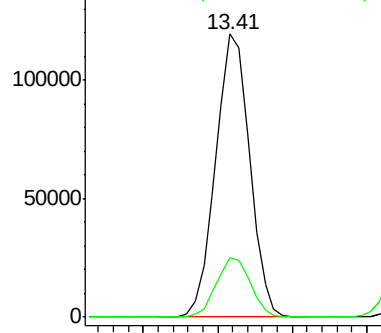
MMDadoda

4/23/2020 1:31:39 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 19.883 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD065665.D

Acq: 22 Apr 2020 14:37

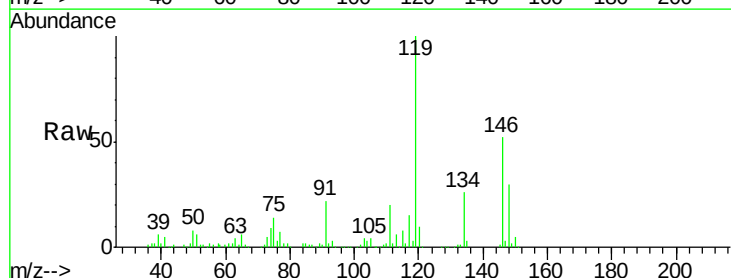
Tgt Ion:119 Resp: 176384

Ion Ratio Lower Upper

119 100

134 26.7 13.4 40.2

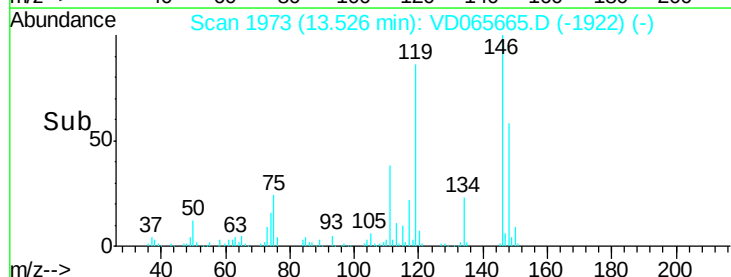
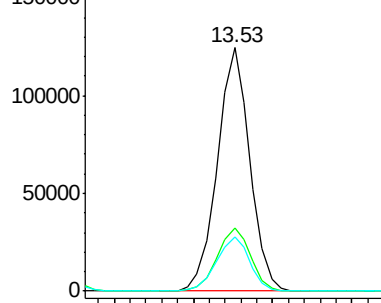
91 22.9 10.9 32.7

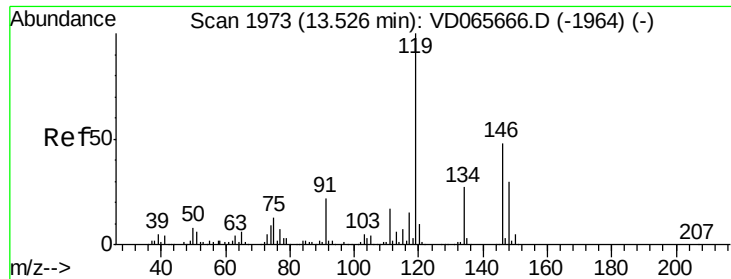


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





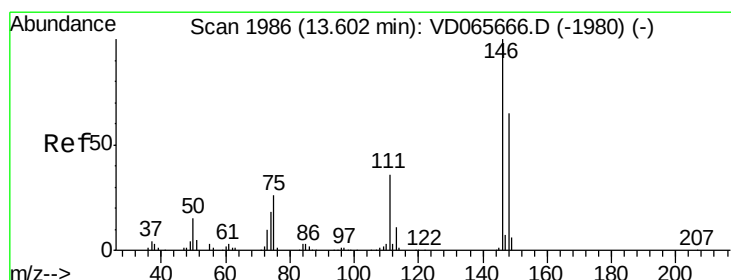
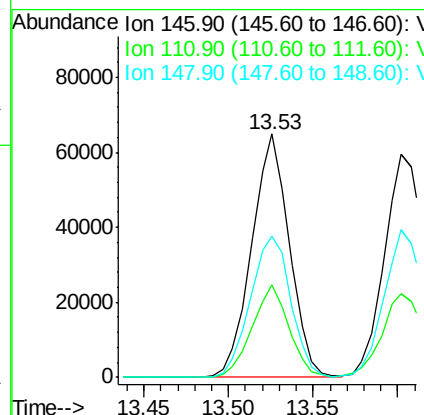
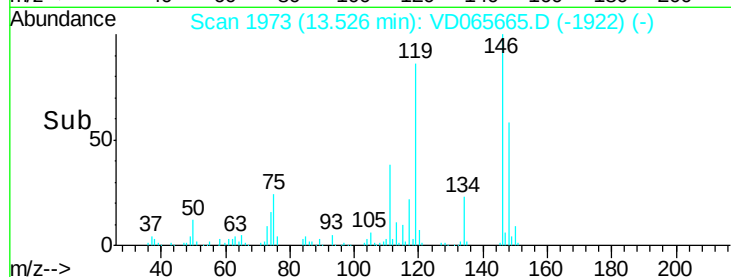
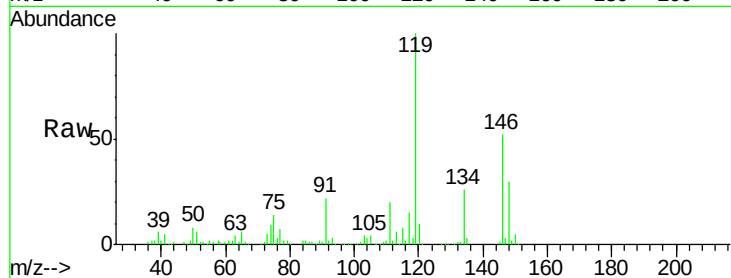
#87
 1,3-Dichlorobenzene
 Concen: 20.769 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: VD065665.D
 Acq: 22 Apr 2020 14:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.2	18.6	56.0
148	62.2	31.9	95.9

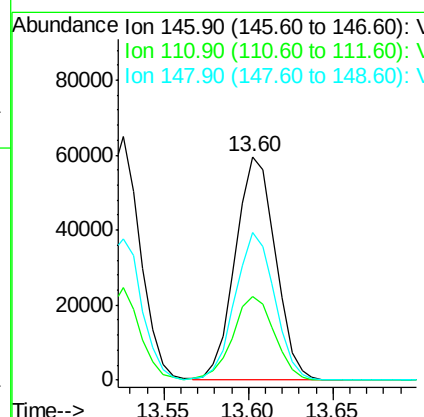
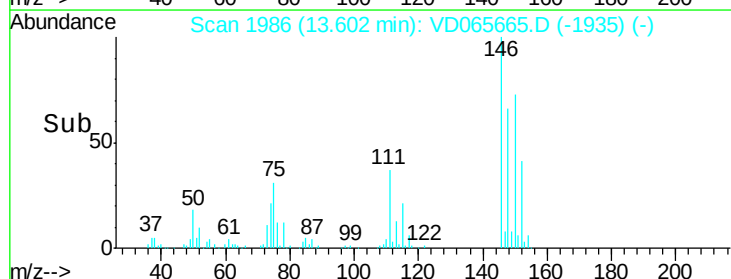
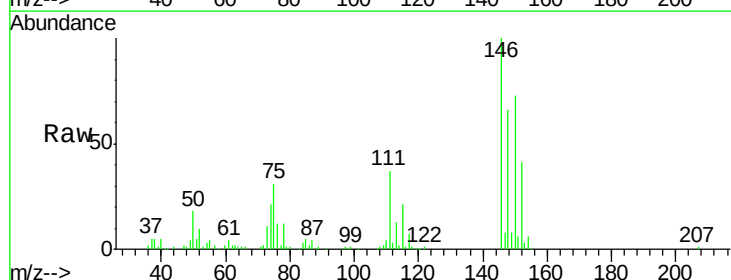
Manual Integrations
 APPROVED

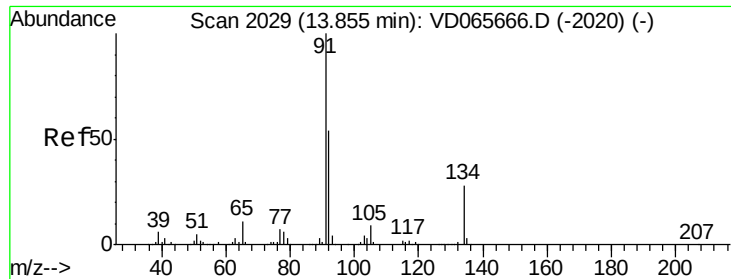
MMDadoda
 4/23/2020 1:31:39 PM



#88
 1,4-Dichlorobenzene
 Concen: 20.471 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. 0.00 min
 Lab File: VD065665.D
 Acq: 22 Apr 2020 14:37

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.7	18.1	54.1
148	65.2	31.9	95.5





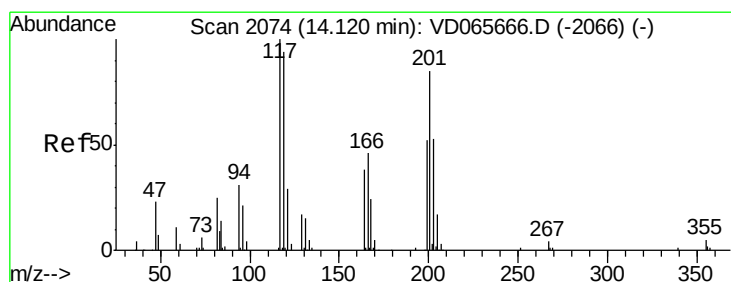
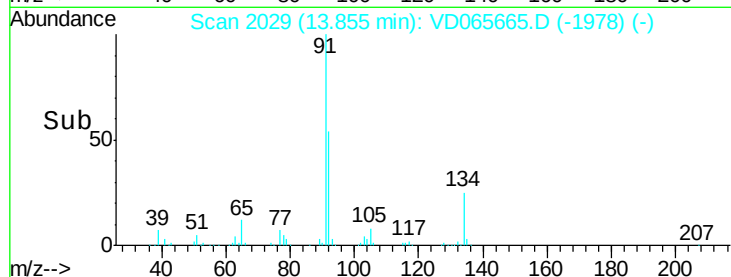
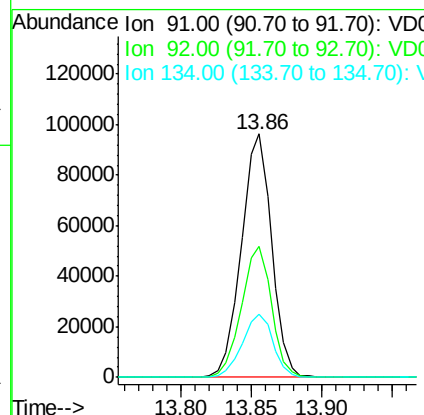
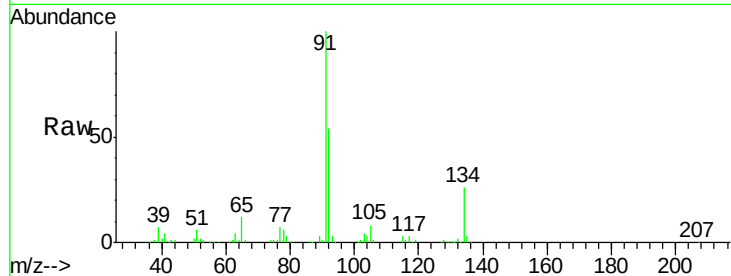
#89
n-Butylbenzene
Concen: 17.926 ug/l
RT: 13.86 min Scan# 2029
Delta R.T. 0.00 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		144111		
92	53.5	27.1	81.2		
134	26.5	13.7	41.0		

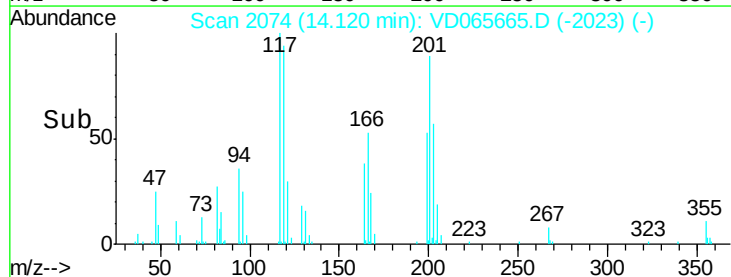
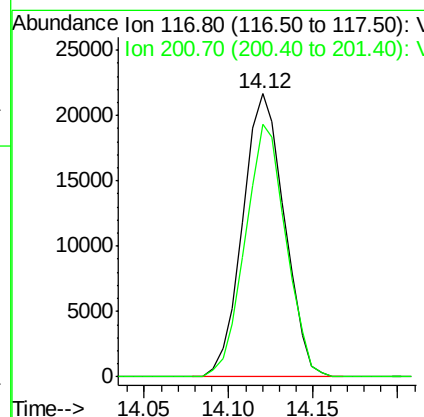
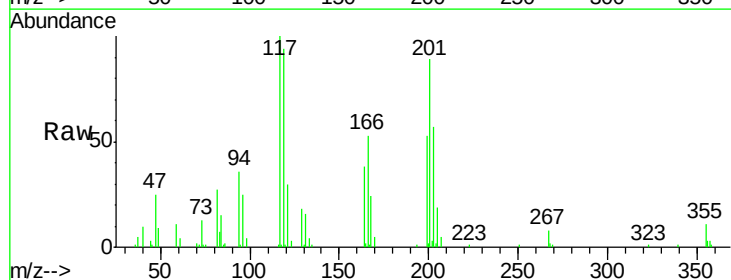
Manual Integrations
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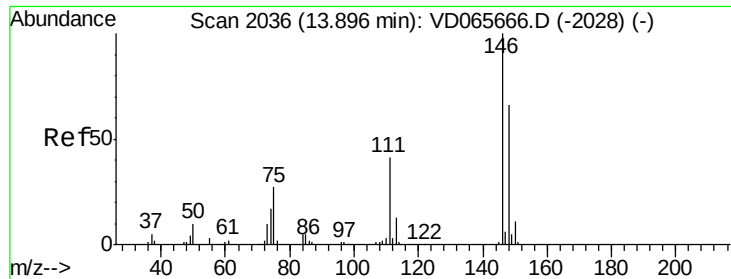
MMDadoda
4/23/2020 1:31:39 PM



#90
Hexachloroethane
Concen: 19.954 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.00 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
117	100		37229		
201	87.3	44.6	134.0		





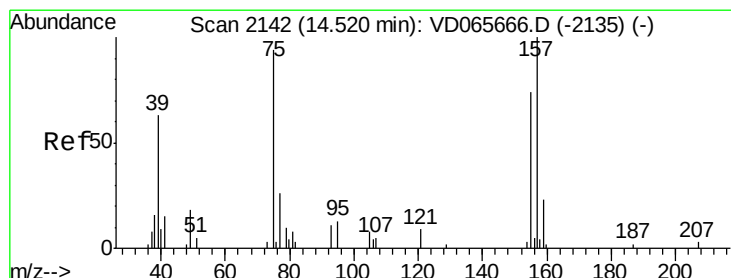
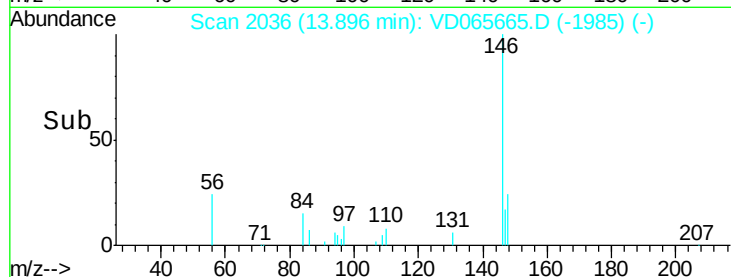
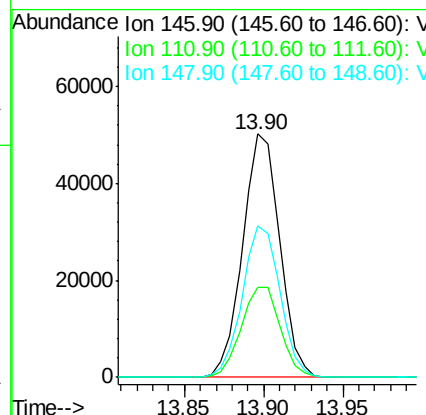
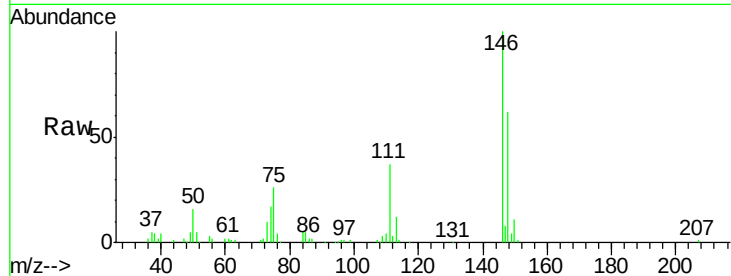
#91
 1,2-Dichlorobenzene
 Concen: 19.712 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. 0.00 min
 Lab File: VD065665.D
 Acq: 22 Apr 2020 14:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.0	19.4	58.1
148	63.2	32.2	96.6

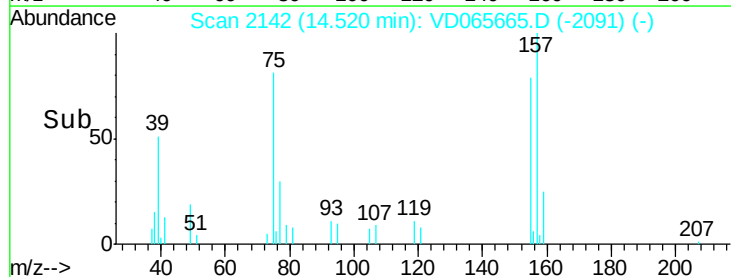
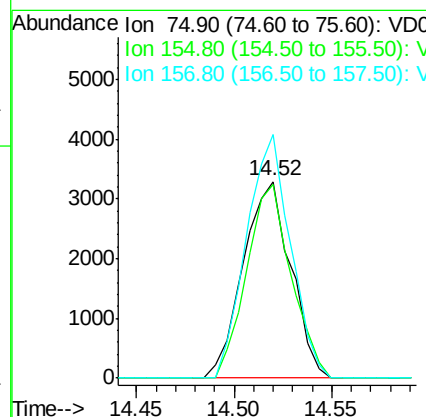
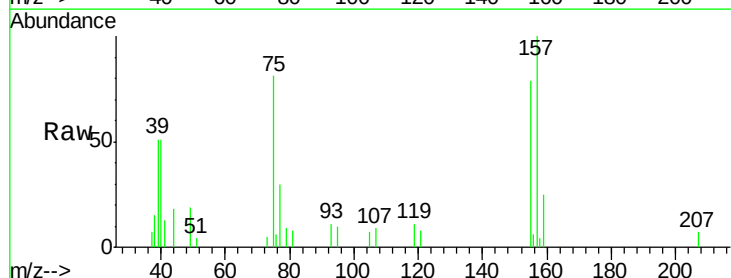
Manual Integrations
 APPROVED

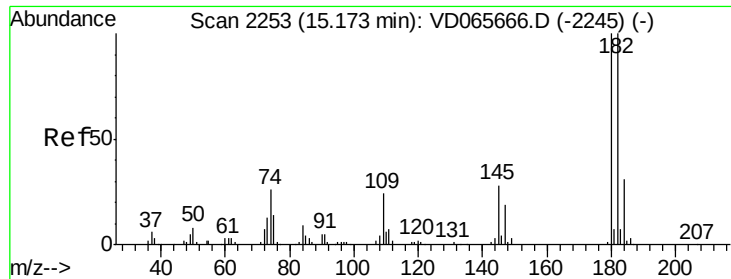
MMDadoda
 4/23/2020 1:31:39 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.675 ug/l
 RT: 14.52 min Scan# 2142
 Delta R.T. 0.00 min
 Lab File: VD065665.D
 Acq: 22 Apr 2020 14:37

Tgt Ion	Ratio	Lower	Upper
75	100		
155	92.4	40.6	122.0
157	114.6	52.8	158.5





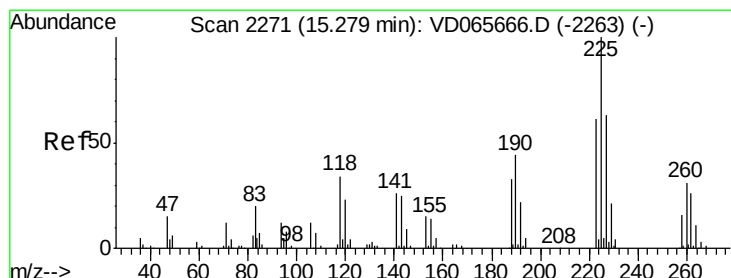
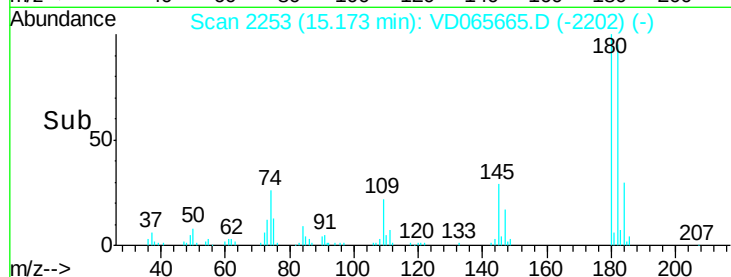
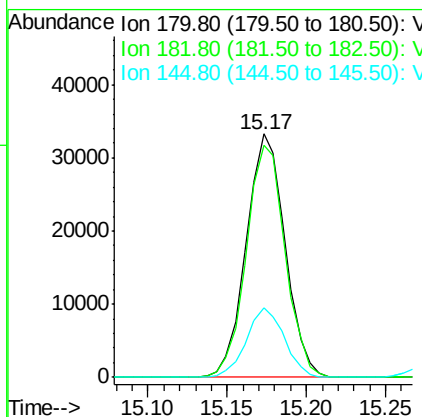
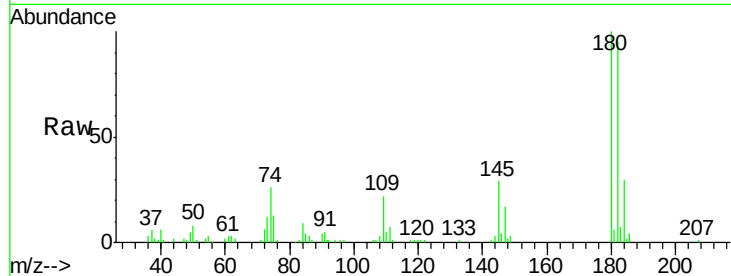
#93
 1,2,4-Trichlorobenzene
 Concen: 19.923 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VD065665.D
 Acq: 22 Apr 2020 14:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.4	142.2
145	27.9	14.1	42.4

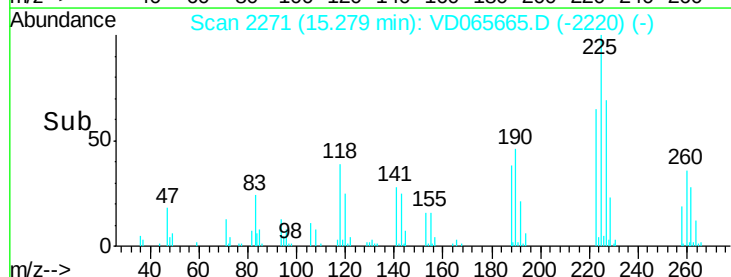
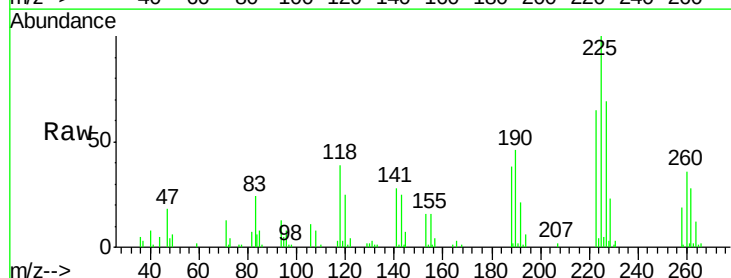
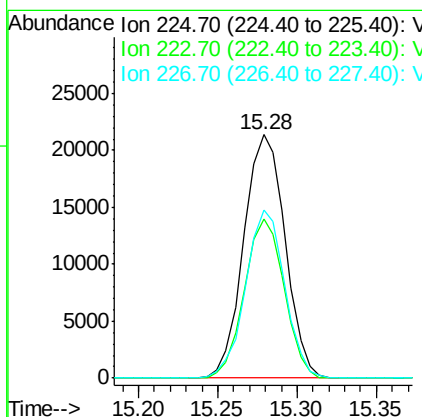
Manual Integrations
 APPROVED

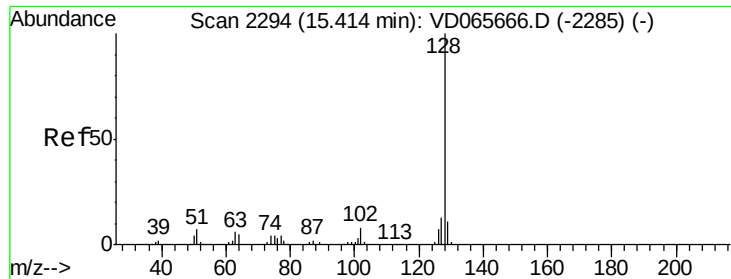
MMDadoda
 4/23/2020 1:31:39 PM



#94
 Hexachlorobutadiene
 Concen: 19.820 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. 0.00 min
 Lab File: VD065665.D
 Acq: 22 Apr 2020 14:37

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.6	30.8	92.4
227	65.4	32.1	96.5





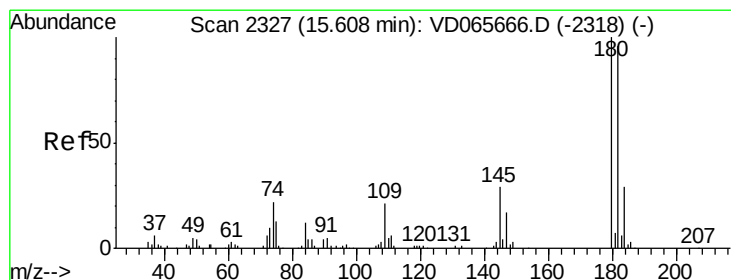
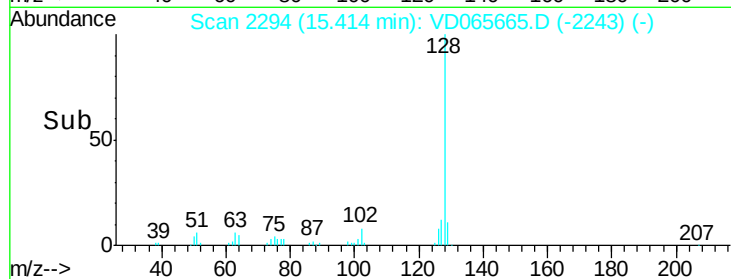
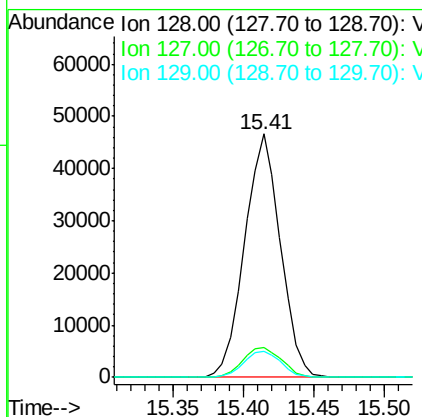
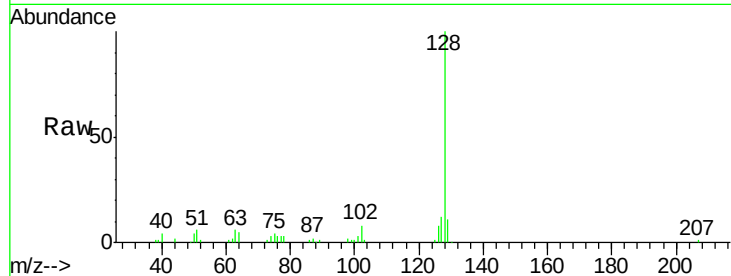
#95
Naphthalene
Concen: 19.850 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.00 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion:128	Resp:	82807
Ion Ratio	Lower	Upper
128 100		
127 13.2	10.6	15.8
129 11.2	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
4/23/2020 1:31:39 PM



#96
1,2,3-Trichlorobenzene
Concen: 20.345 ug/l
RT: 15.61 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VD065665.D
Acq: 22 Apr 2020 14:37

Tgt Ion:180	Resp:	50887
Ion Ratio	Lower	Upper
180 100		
182 94.2	47.4	142.3
145 28.8	14.6	44.0

