

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD010920\
 Data File : VD064811.D
 Acq On : 09 Jan 2020 12:28
 Operator : VA/SY
 Sample : VD0109SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0109SBS01

Manual Integrations
 APPROVED

MMDadoda
 1/10/2020 10:42:06 AM

Quant Time: Jan 09 14:22:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	394755	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	578531	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	506250	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	245984	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	192711	55.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.72%	
35) Dibromofluoromethane	7.92	113	191653	54.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.00%	
50) Toluene-d8	10.34	98	731738	53.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.66%	
62) 4-Bromofluorobenzene	12.64	95	230705	53.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.34%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	65950	21.497	ug/l	99
3) Chloromethane	2.21	50	97665	22.763	ug/l	98
4) Vinyl Chloride	2.35	62	114509	21.889	ug/l	97
5) Bromomethane	2.76	94	81516	21.431	ug/l	97
6) Chloroethane	2.92	64	80106	22.853	ug/l	99
7) Trichlorofluoromethane	3.27	101	193327	21.948	ug/l	95
8) Diethyl Ether	3.71	74	36443	20.835	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	4.08	101	85496	23.437	ug/l	98
10) Methyl Iodide	4.29	142	82380	21.024	ug/l	99
11) Tert butyl alcohol	5.25	59	21082	105.678	ug/l	98
12) 1,1-Dichloroethene	4.06	96	77618	22.349	ug/l	98
13) Acrolein	3.92	56	23579	84.810	ug/l	97
14) Allyl chloride	4.71	41	121731	22.481	ug/l	99
15) Acrylonitrile	5.43	53	83124	114.090	ug/l	99
16) Acetone	4.17	43	84787	110.649	ug/l #	88
17) Carbon Disulfide	4.40	76	238155	21.207	ug/l	98
18) Methyl Acetate	4.72	43	43848	22.375	ug/l	98
19) Methyl tert-butyl Ether	5.48	73	167561	21.722	ug/l	96
20) Methylene Chloride	4.96	84	93392	23.659	ug/l	97
21) trans-1,2-Dichloroethene	5.47	96	86859	21.961	ug/l	99
22) Diisopropyl ether	6.37	45	243606	22.555	ug/l	97
23) Vinyl Acetate	6.31	43	671741	109.643	ug/l	99
24) 1,1-Dichloroethane	6.27	63	148363	22.882	ug/l	100
25) 2-Butanone	7.22	43	106857	111.680	ug/l	99
26) 2,2-Dichloropropane	7.21	77	140067	23.235	ug/l	99
27) cis-1,2-Dichloroethene	7.21	96	94897	22.231	ug/l	96
28) Bromochloromethane	7.55	49	52052	20.652	ug/l	98
29) Tetrahydrofuran	7.57	42	62226	104.578	ug/l	100
30) Chloroform	7.71	83	155104	22.801	ug/l	98
31) Cyclohexane	7.98	56	141080	21.737	ug/l #	89
32) 1,1,1-Trichloroethane	7.90	97	146909	22.992	ug/l	99
36) 1,1-Dichloropropene	8.11	75	124126	22.291	ug/l	98
37) Ethyl Acetate	7.30	43	49563	22.657	ug/l	98
38) Carbon Tetrachloride	8.10	117	133315	22.453	ug/l	98

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	144202	21.381	ug/l	93
40) Benzene	8.35	78	342677	22.543	ug/l	100
41) Methacrylonitrile	7.53	41	27344	21.544	ug/l	93
42) 1,2-Dichloroethane	8.43	62	98210	22.358	ug/l	100
43) Isopropyl Acetate	8.46	43	92717	21.294	ug/l	100
44) Trichloroethene	9.11	130	100691	22.548	ug/l	95
45) 1,2-Dichloropropane	9.39	63	83080	22.891	ug/l	97
46) Dibromomethane	9.48	93	44742	22.111	ug/l	97
47) Bromodichloromethane	9.67	83	119107	22.120	ug/l	100
48) Methyl methacrylate	9.46	41	43840	21.384	ug/l	93
49) 1,4-Dioxane	9.47	88	9668	414.354	ug/l	95
51) 4-Methyl-2-Pentanone	10.23	43	235461	109.408	ug/l	100
52) Toluene	10.41	92	218821	21.941	ug/l	100
53) t-1,3-Dichloropropene	10.63	75	109887	21.889	ug/l	95
54) cis-1,3-Dichloropropene	10.09	75	133727	22.591	ug/l	98
55) 1,1,2-Trichloroethane	10.80	97	58849	21.580	ug/l	97
56) Ethyl methacrylate	10.66	69	72791	21.373	ug/l	96
57) 1,3-Dichloropropane	10.96	76	101706	21.661	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.94	63	148028	114.082	ug/l	99
59) 2-Hexanone	10.99	43	166503	113.989	ug/l	97
60) Dibromochloromethane	11.14	129	81826	21.698	ug/l	98
61) 1,2-Dibromoethane	11.25	107	58387	21.707	ug/l	97
64) Tetrachloroethene	10.88	164	85360	21.978	ug/l	92
65) Chlorobenzene	11.67	112	233500	22.223	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.74	131	87658	22.130	ug/l	99
67) Ethyl Benzene	11.75	91	421453	22.099	ug/l	98
68) m/p-Xylenes	11.86	106	320385	43.524	ug/l	97
69) o-Xylene	12.18	106	142195	21.386	ug/l	99
70) Styrene	12.20	104	249932	21.415	ug/l	99
71) Bromoform	12.37	173	48280	21.373	ug/l #	100
73) Isopropylbenzene	12.48	105	403251	22.940	ug/l	98
74) N-amyl acetate	12.30	43	83629	22.256	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.74	83	63056	22.835	ug/l	99
76) 1,2,3-Trichloropropane	12.79	75	47569m	24.489	ug/l	
77) Bromobenzene	12.77	156	96272	22.289	ug/l	98
78) n-propylbenzene	12.83	91	475086	23.166	ug/l	98
79) 2-Chlorotoluene	12.91	91	252997	22.457	ug/l	100
80) 1,3,5-Trimethylbenzene	12.97	105	325405	22.535	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.53	75	21828	23.503	ug/l	99
82) 4-Chlorotoluene	13.01	91	272118	22.698	ug/l	99
83) tert-Butylbenzene	13.23	119	281419	22.446	ug/l	100
84) 1,2,4-Trimethylbenzene	13.27	105	325398	22.627	ug/l	99
85) sec-Butylbenzene	13.41	105	389988	22.689	ug/l	99
86) p-Isopropyltoluene	13.53	119	359583	21.879	ug/l	98
87) 1,3-Dichlorobenzene	13.53	146	181643	22.060	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	179653	22.210	ug/l	98
89) n-Butylbenzene	13.85	91	334788	22.620	ug/l	98
90) Hexachloroethane	14.12	117	70889	22.580	ug/l	96
91) 1,2-Dichlorobenzene	13.90	146	157870	22.485	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.52	75	9659	21.577	ug/l	89

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ClientSampleId :
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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	109192	21.121	ug/l	99
94) Hexachlorobutadiene	15.28	225	71026	21.833	ug/l	97
95) Naphthalene	15.41	128	162675	19.890	ug/l	98
96) 1,2,3-Trichlorobenzene	15.61	180	91936	20.831	ug/l	98

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

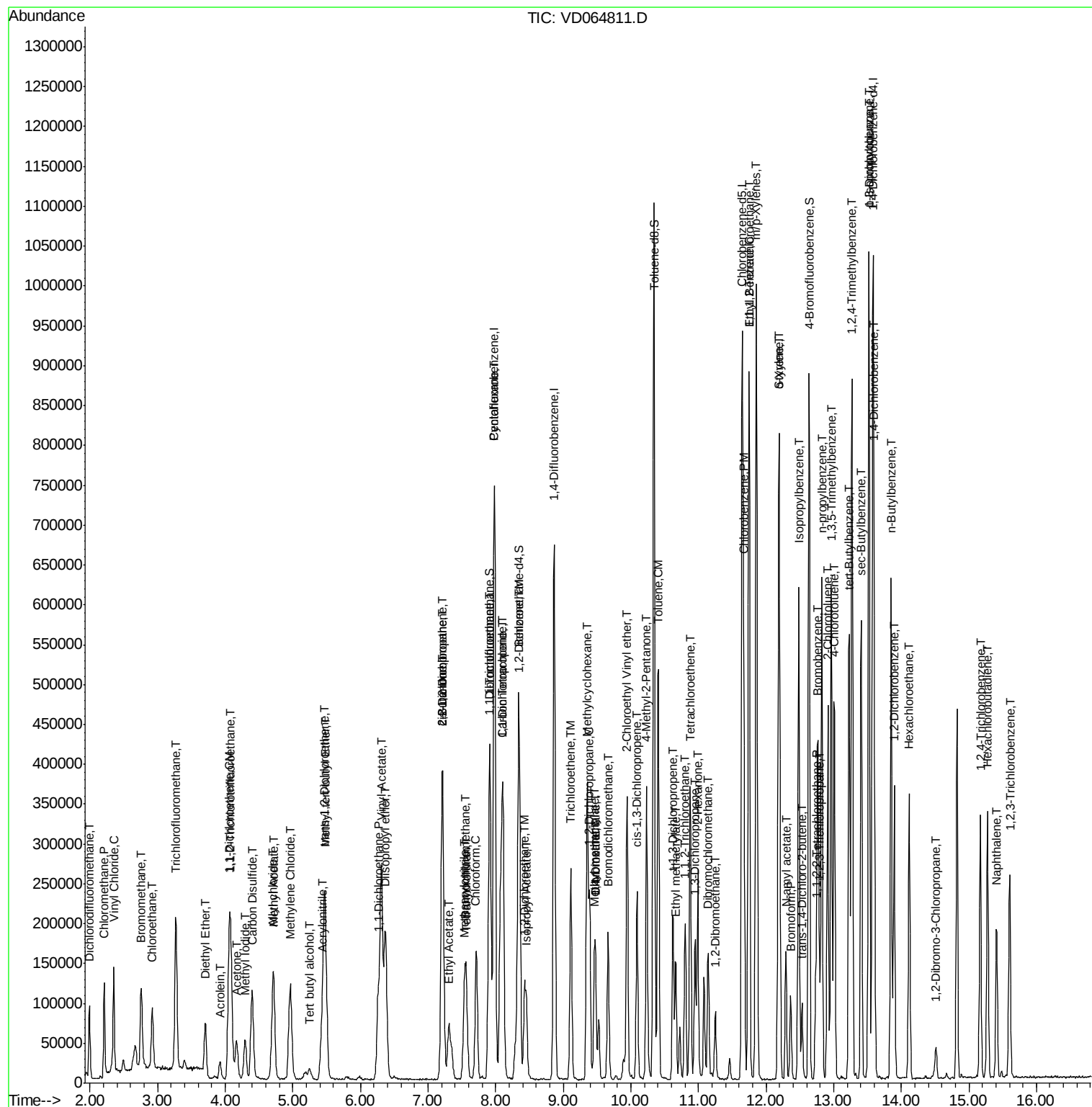
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD010920\
Data File : VD064811.D
Acq On : 09 Jan 2020 12:28
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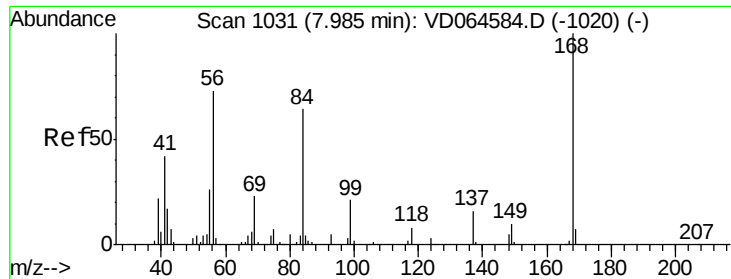
Instrument :
MSVOA_D
ClientSampleId :
VD0109SBS01

Manual Integrations
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD0109SBSD01

Tot Ion:168 Resp: 394755

Ion Ratio Lower Upper

168 100

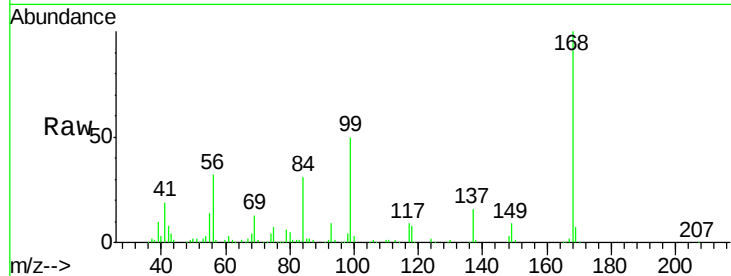
99 49.7 41.8 62.6

Manual Integrations

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1/10/2020 10:42:06 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

150000

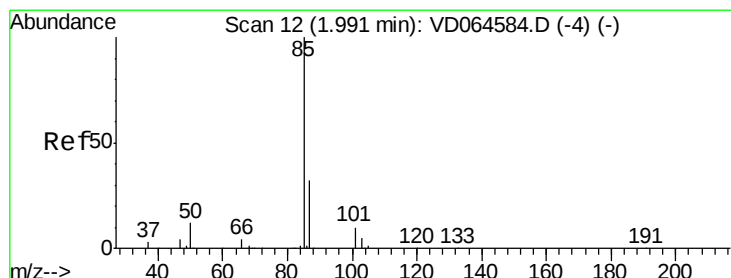
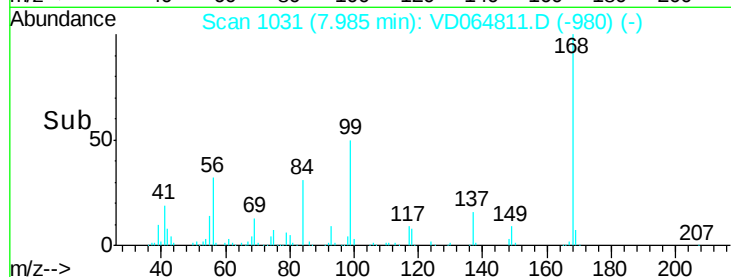
100000

50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 21.497 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD064811.D

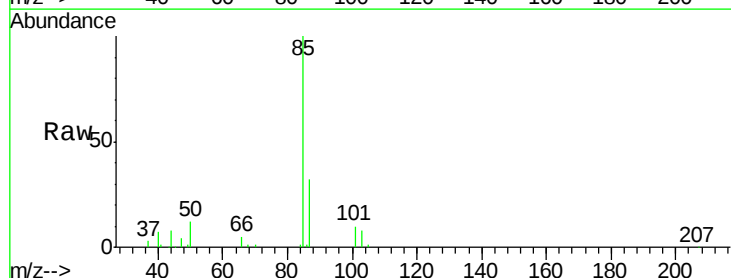
Acq: 09 Jan 2020 12:28

Tgt Ion: 85 Resp: 65950

Ion Ratio Lower Upper

85 100

87 31.6 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

50000

40000

30000

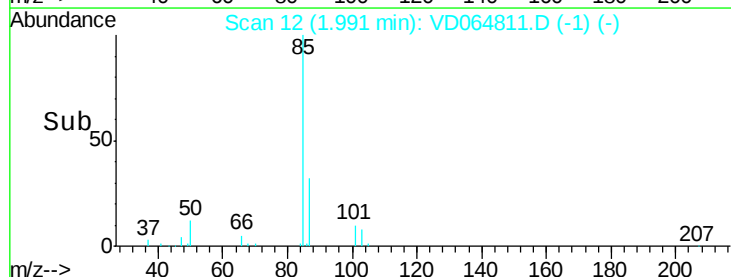
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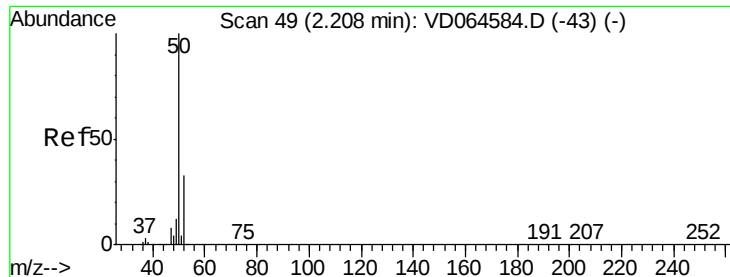
10000

0

1.95 2.00 2.05

Time-->





#3

Chloromethane

Concen: 22.763 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD0109SBSD01

Tot Ion: 50 Resp: 97665

Ion Ratio Lower Upper

50 100

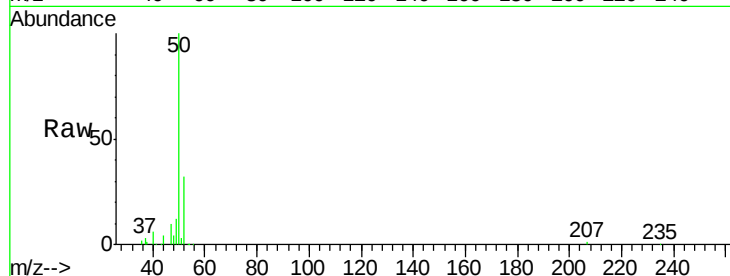
52 32.0 26.5 39.7

Manual Integrations

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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

2.21

80000

60000

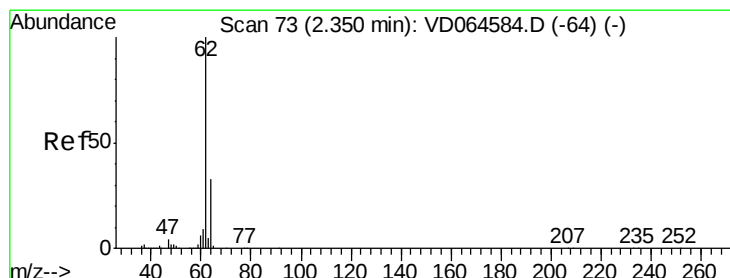
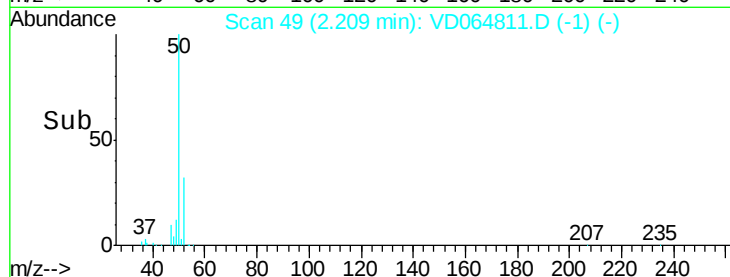
40000

20000

0

Time-->

2.15 2.20 2.25 2.30



#4

Vinyl Chloride

Concen: 21.889 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD064811.D

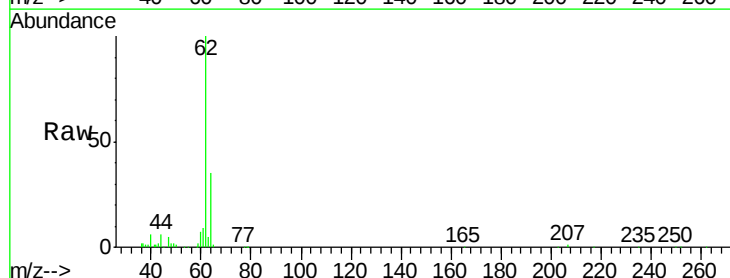
Acq: 09 Jan 2020 12:28

Tgt Ion: 62 Resp: 114509

Ion Ratio Lower Upper

62 100

64 35.0 26.6 40.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC

2.35

80000

60000

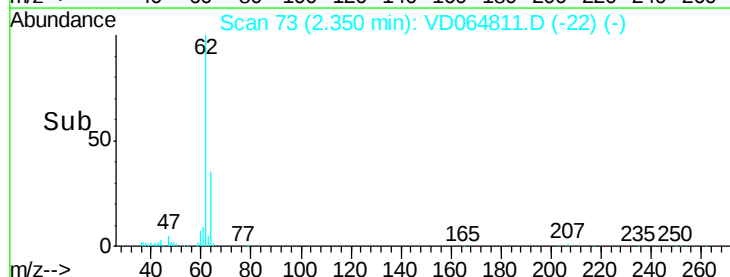
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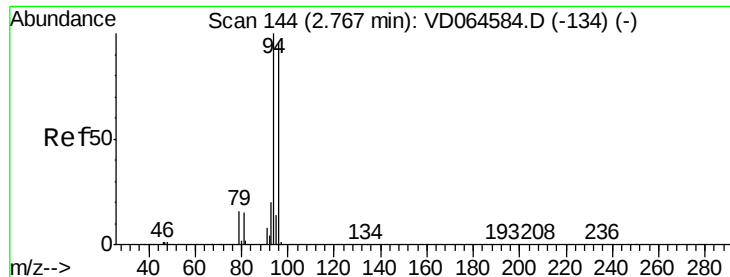
20000

0

Time-->

2.25 2.30 2.35 2.40





#5

Bromomethane

Concen: 21.431 ug/l

RT: 2.76 min Scan# 142

Delta R.T. -0.01 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD0109SBS01

Tot Ion: 94 Resp: 81516

Ion Ratio Lower Upper

94 100

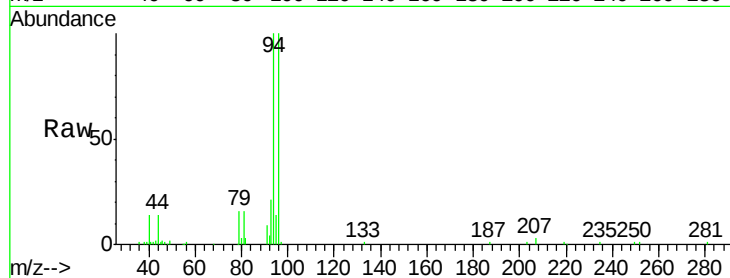
96 99.2 77.2 115.8

Manual Integrations

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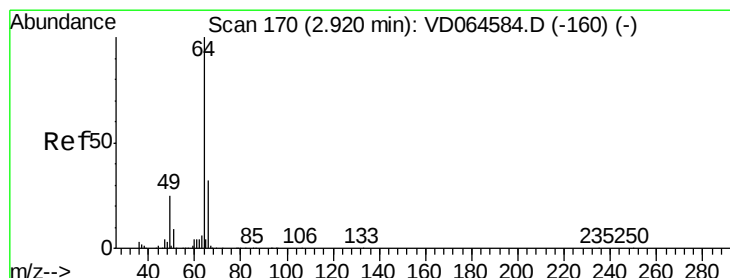
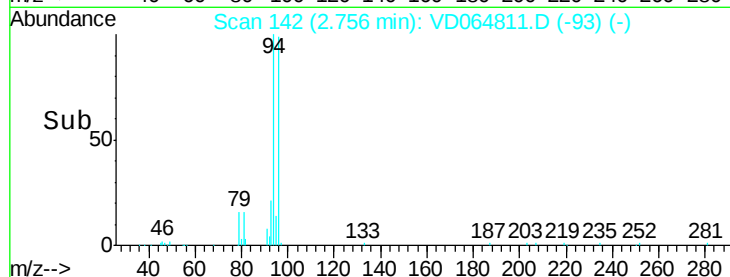
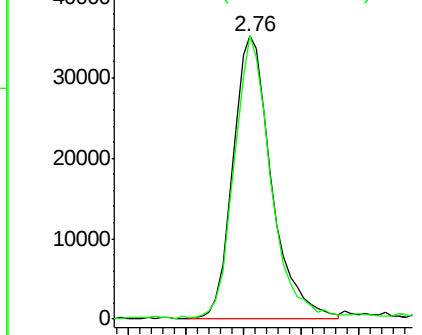
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Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 22.853 ug/l

RT: 2.92 min Scan# 170

Delta R.T. 0.00 min

Lab File: VD064811.D

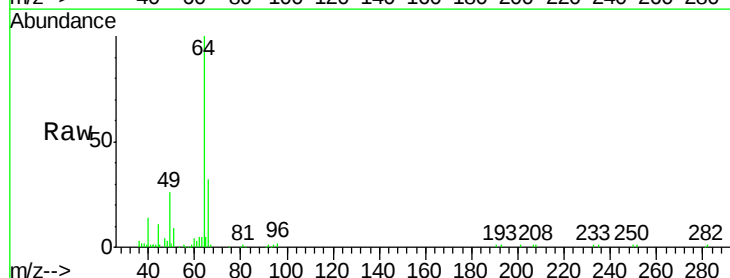
Acq: 09 Jan 2020 12:28

Tgt Ion: 64 Resp: 80106

Ion Ratio Lower Upper

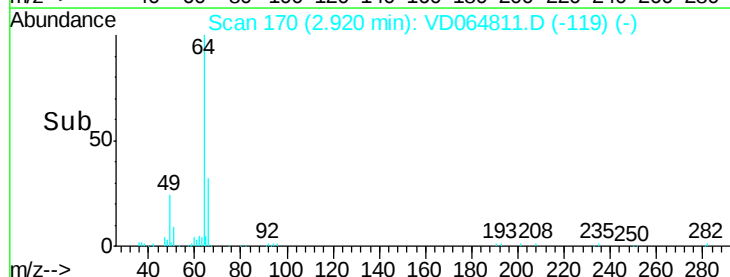
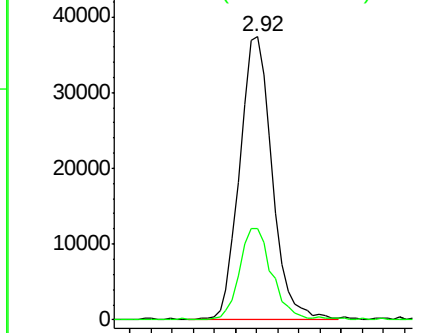
64 100

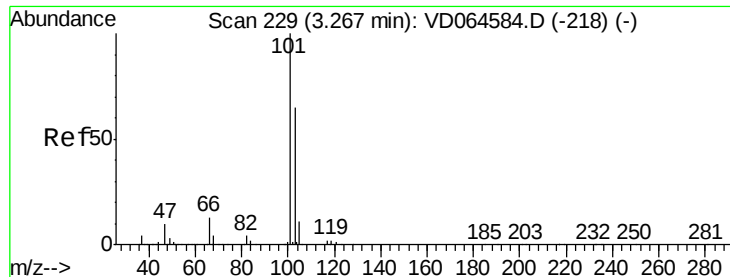
66 32.1 25.9 38.9



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

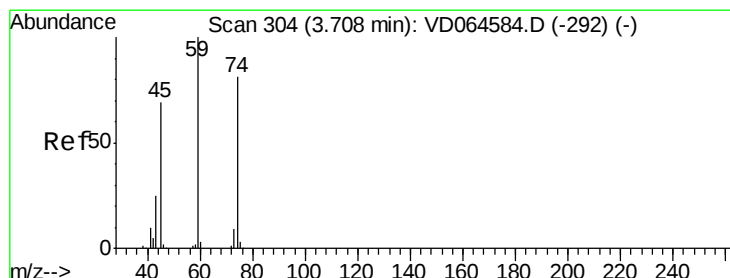
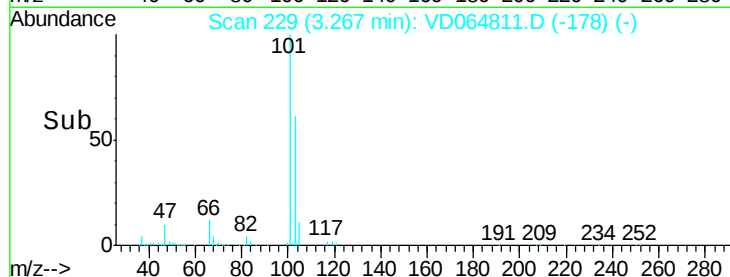
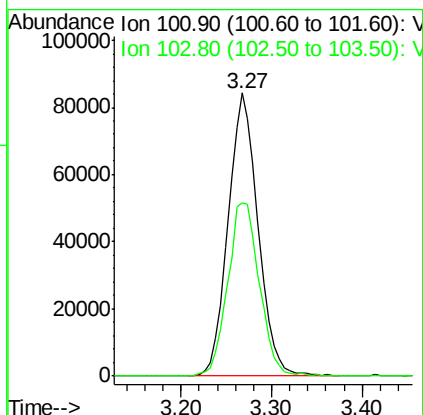
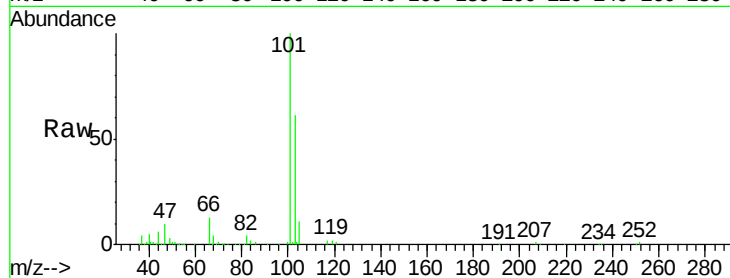
Trichlorofluoromethane
 Concen: 21.948 ug/l
 RT: 3.27 min Scan# 229
 Delta R.T. 0.00 min
 Lab File: VD064811.D
 Acq: 09 Jan 2020 12:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0109SBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	61.4	52.2	78.4

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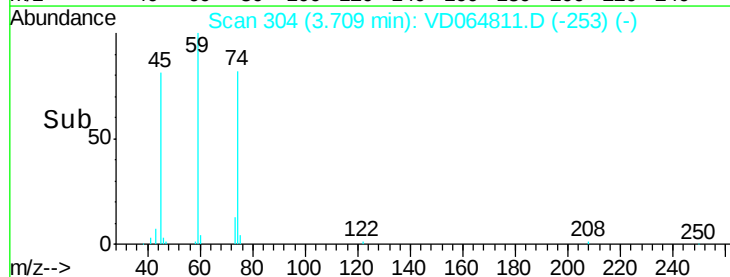
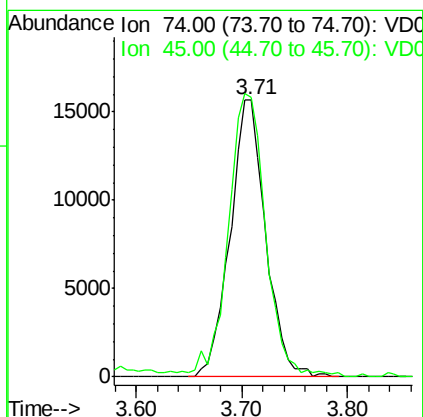
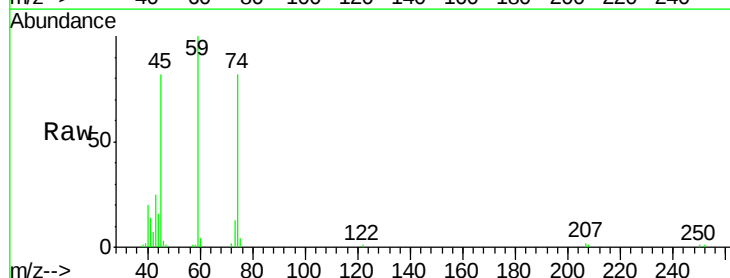
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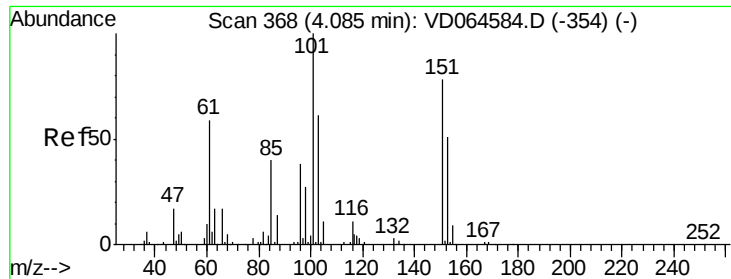


#8

Diethyl Ether
 Concen: 20.835 ug/l
 RT: 3.71 min Scan# 304
 Delta R.T. 0.00 min
 Lab File: VD064811.D
 Acq: 09 Jan 2020 12:28

Tgt Ion	Ratio	Lower	Upper
74	100		
45	107.7	47.5	142.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.437 ug/l

RT: 4.08 min Scan# 367

Delta R.T. -0.01 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

Instrument :

MSVOA_D

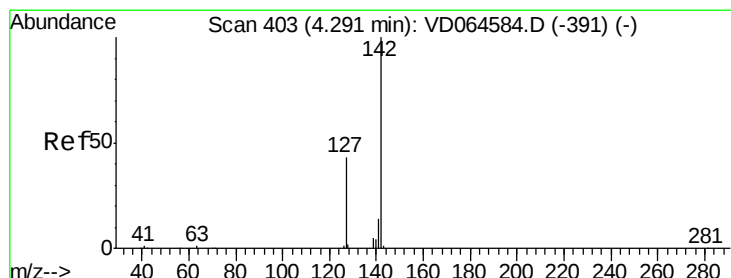
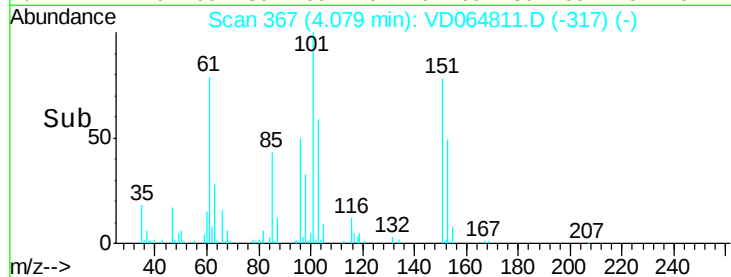
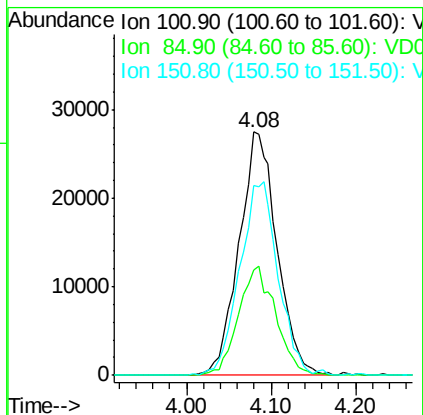
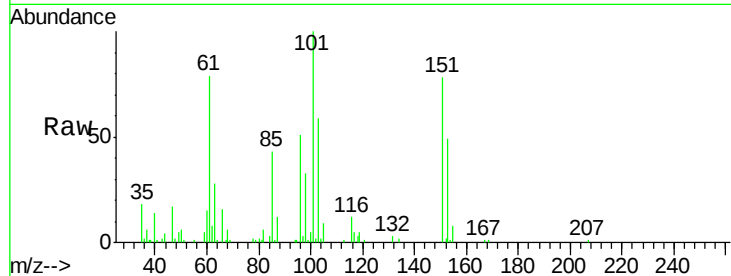
ClientSampleId :

VD0109SBS01

Tot Ion:	101	Resp:	85496
Ion Ratio	Lower	Upper	
101	100		
85	43.9	35.2	52.8
151	80.3	66.2	99.4

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#10

Methyl Iodide

Concen: 21.024 ug/l

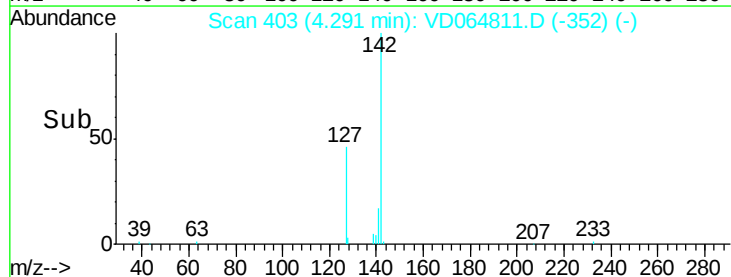
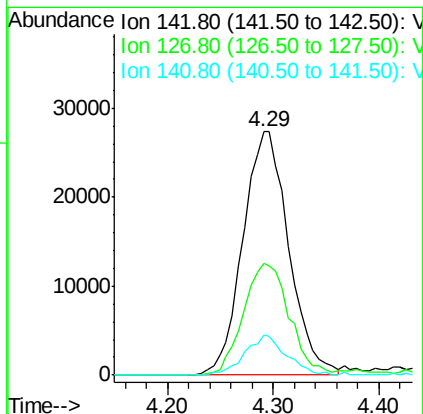
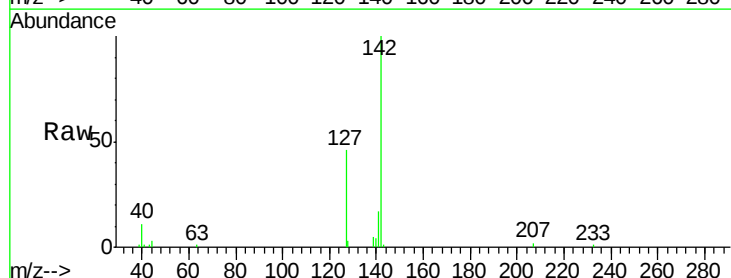
RT: 4.29 min Scan# 403

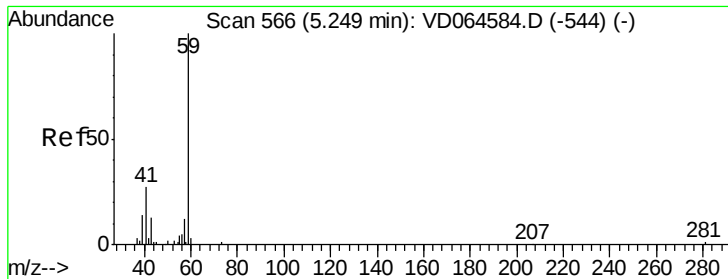
Delta R.T. 0.00 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

Tgt Ion:	142	Resp:	82380
Ion Ratio	Lower	Upper	
142	100		
127	45.8	36.2	54.4
141	14.8	11.8	17.8





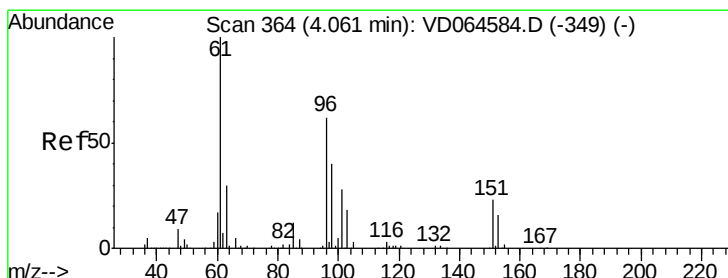
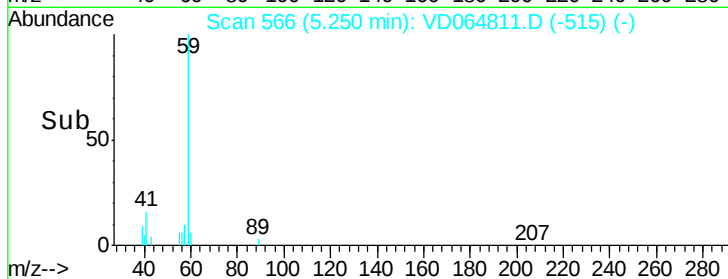
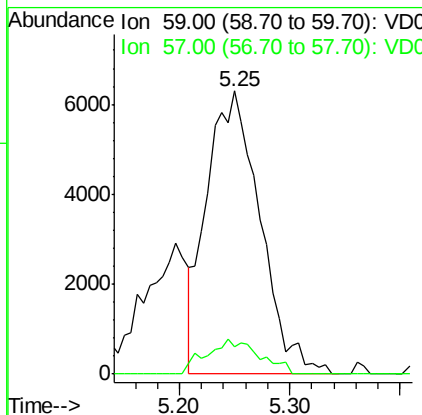
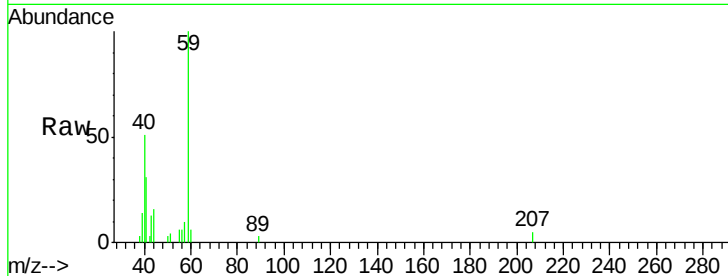
#11
Tert butyl alcohol
Concen: 105.678 ug/l
RT: 5.25 min Scan# 566
Delta R.T. 0.00 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD0109SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	12.2	9.3	13.9

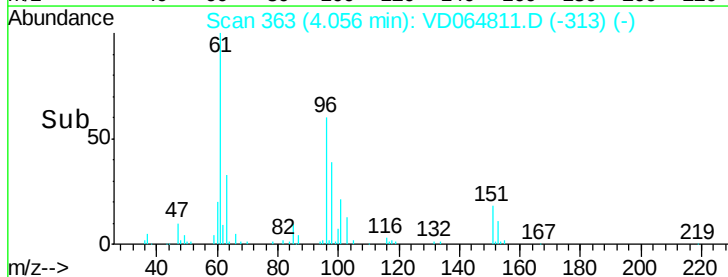
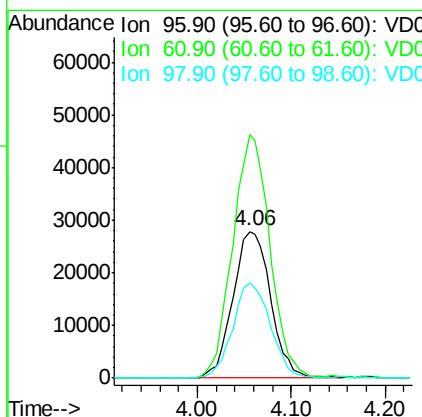
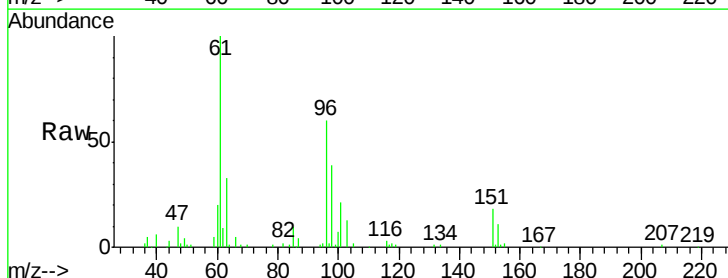
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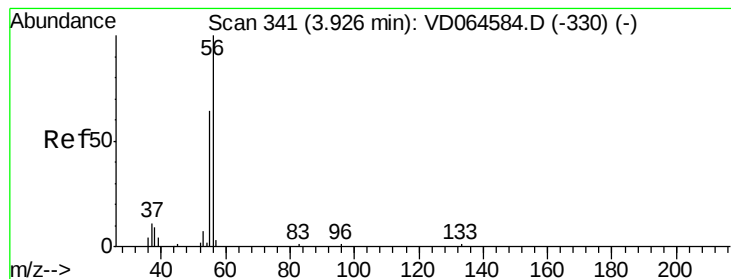
MMDadoda
1/10/2020 10:42:06 AM



#12
1,1-Dichloroethene
Concen: 22.349 ug/l
RT: 4.06 min Scan# 363
Delta R.T. -0.01 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Tgt Ion	Ratio	Lower	Upper
96	100		
61	165.8	129.4	194.0
98	64.9	51.4	77.0





#13

Acrolein

Concen: 84.810 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD0109SBS01

Tot Ion: 56 Resp: 23579

Ion Ratio Lower Upper

56 100

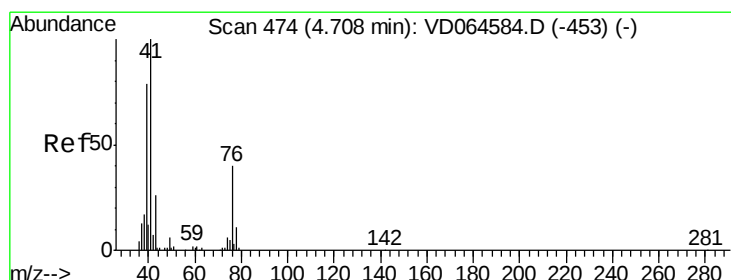
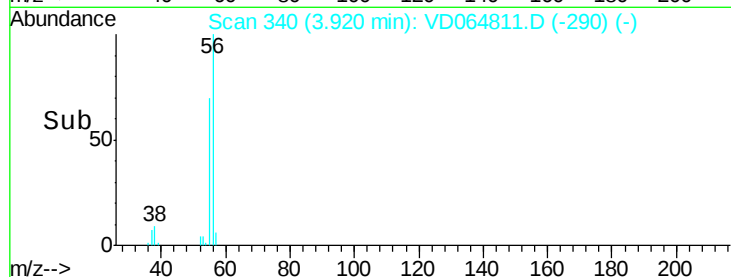
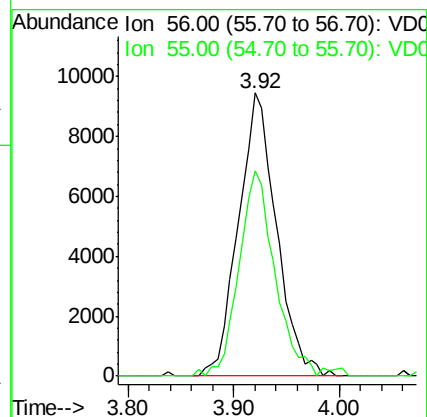
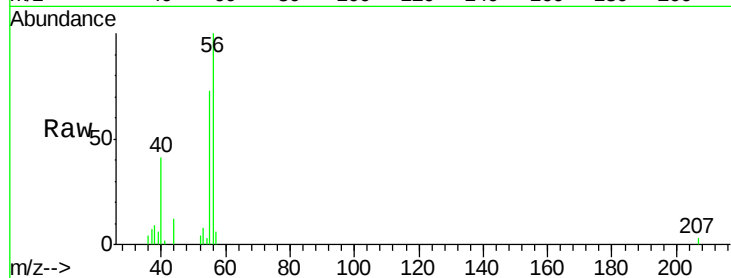
55 68.1 56.7 85.1

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#14

Allyl chloride

Concen: 22.481 ug/l

RT: 4.71 min Scan# 474

Delta R.T. 0.00 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

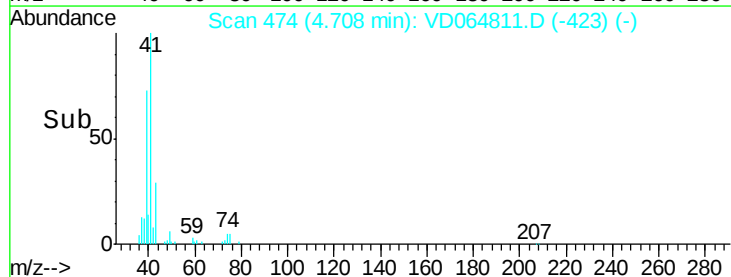
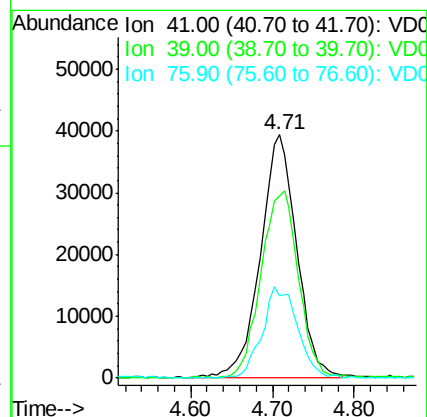
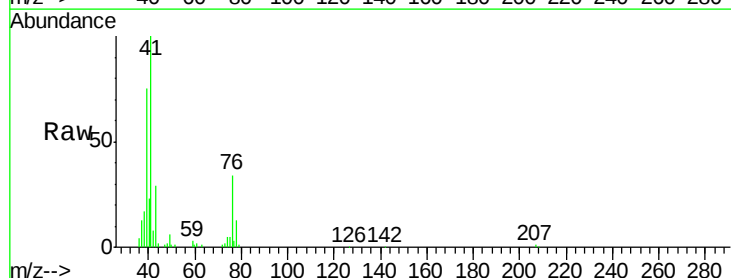
Tgt Ion: 41 Resp: 121731

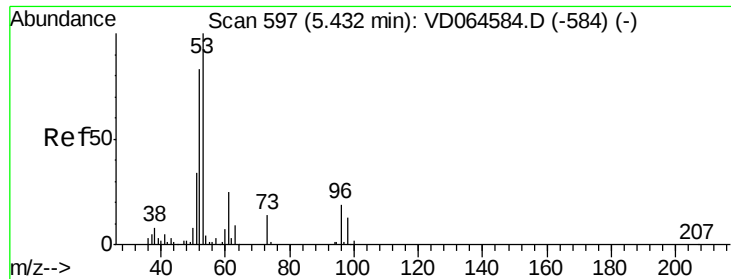
Ion Ratio Lower Upper

41 100

39 79.2 62.3 93.5

76 36.5 29.7 44.5





#15

Acrylonitrile

Concen: 114.090 ug/l

RT: 5.43 min Scan# 596

Delta R.T. -0.01 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

Instrument :

MSVOA_D

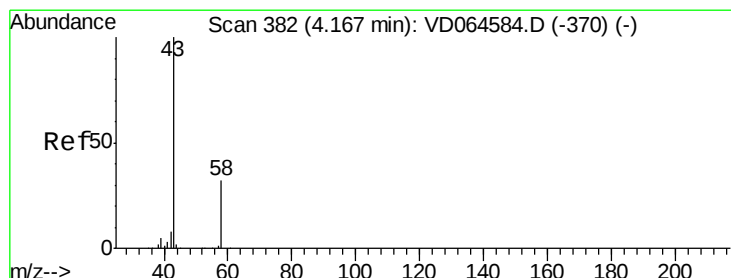
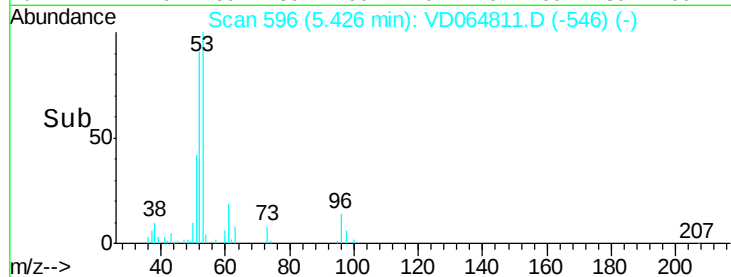
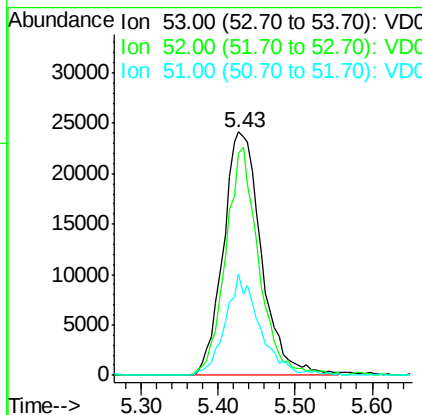
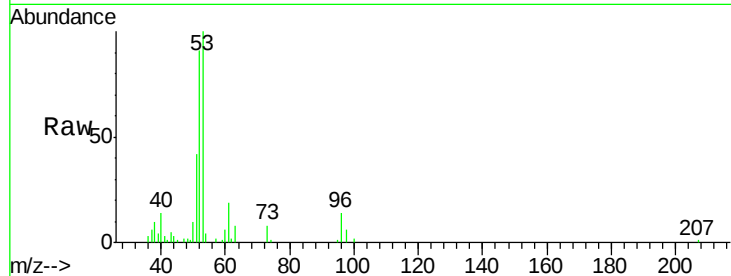
ClientSampleId :

VD0109SBS01

Tot Ion:	53	Resp:	83124
Ion	Ratio	Lower	Upper
53	100		
52	81.7	66.2	99.2
51	36.8	30.1	45.1

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#16

Acetone

Concen: 110.649 ug/l

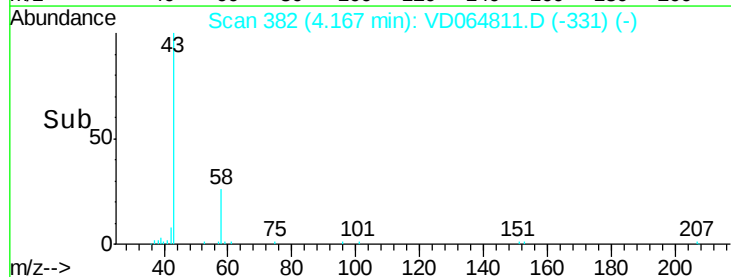
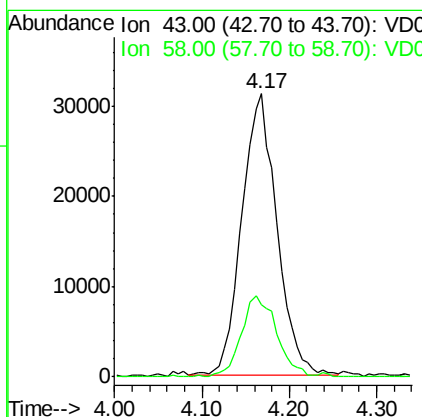
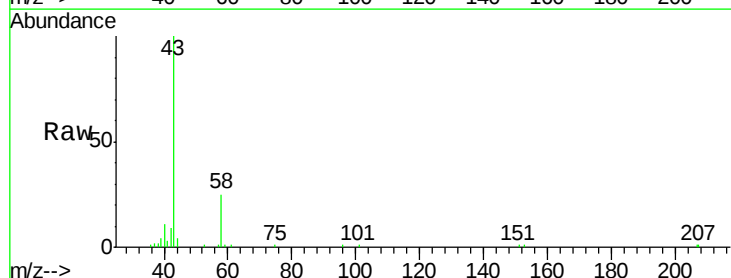
RT: 4.17 min Scan# 382

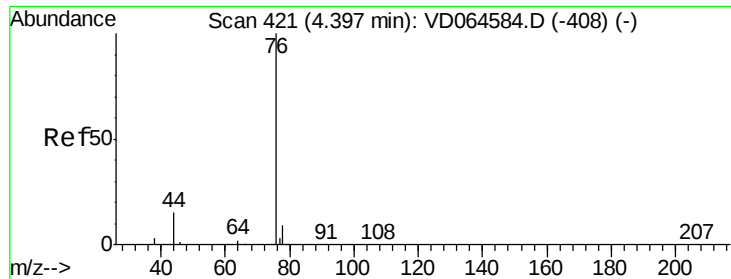
Delta R.T. 0.00 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

Tgt Ion:	43	Resp:	84787
Ion	Ratio	Lower	Upper
43	100		
58	25.5	25.8	38.6#





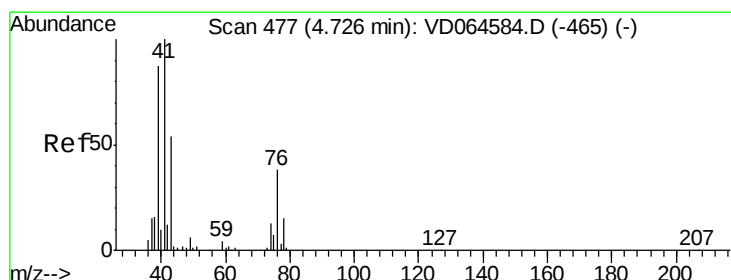
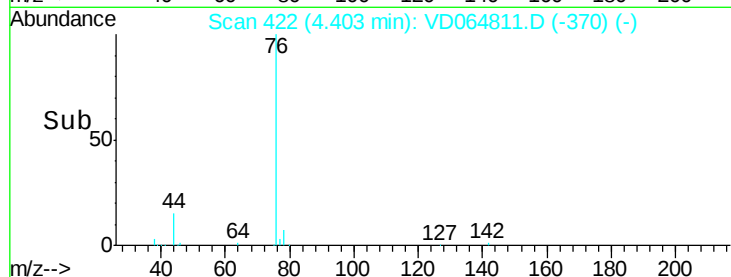
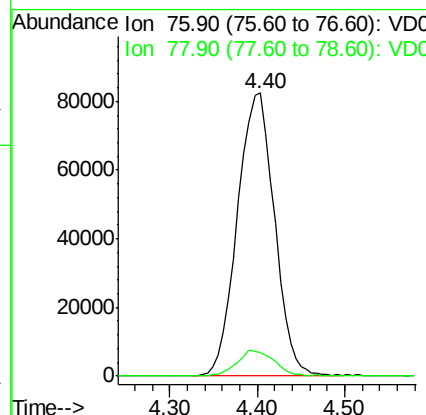
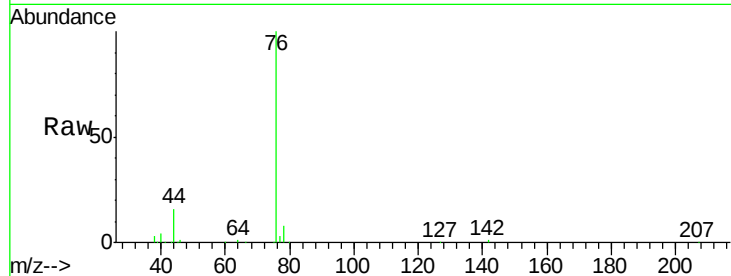
#17
Carbon Disulfide
Concen: 21.207 ug/l
RT: 4.40 min Scan# 422
Delta R.T. 0.01 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD0109SBS01

Tot Ion	Ratio	Resp	Lower	Upper
76	100	238155		
78	8.4		7.3	10.9

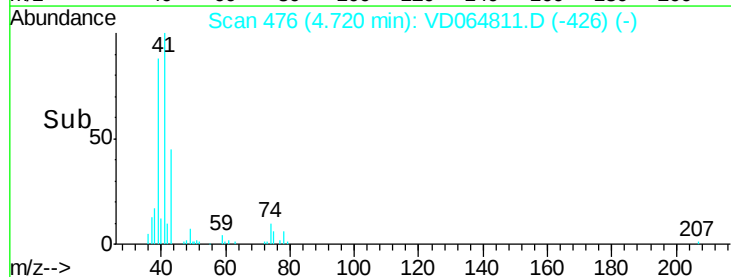
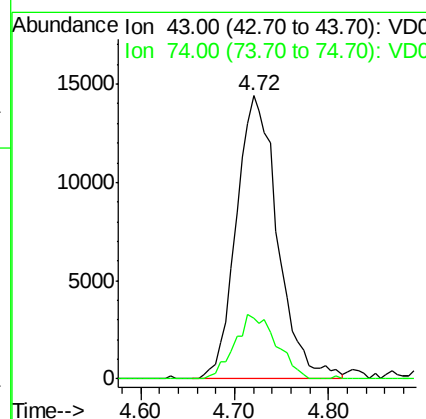
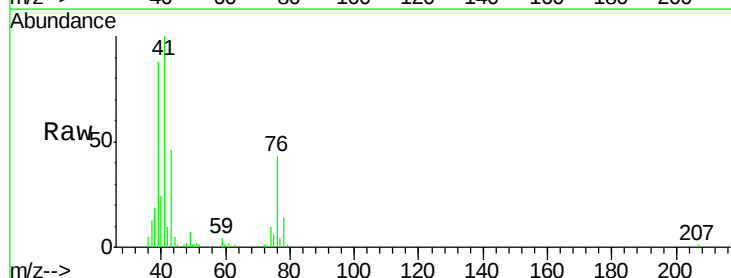
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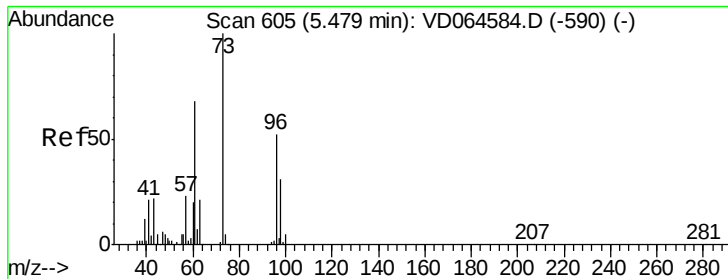
MMDadoda
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#18
Methyl Acetate
Concen: 22.375 ug/l
RT: 4.72 min Scan# 476
Delta R.T. -0.01 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	43848		
74	22.9		19.2	28.8





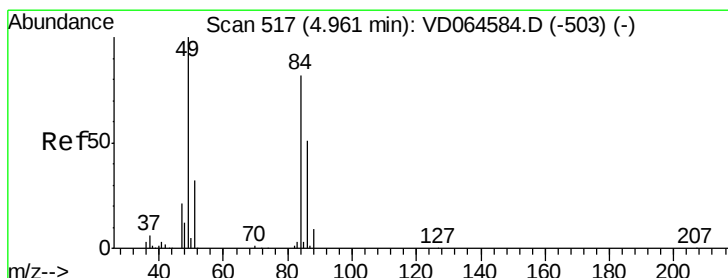
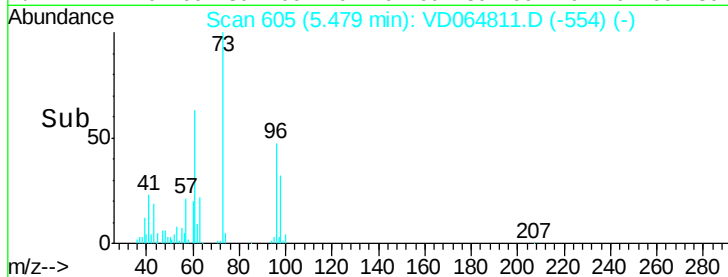
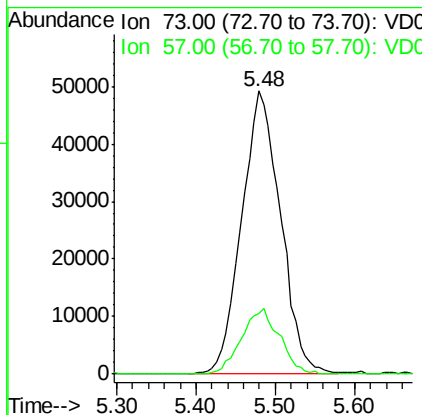
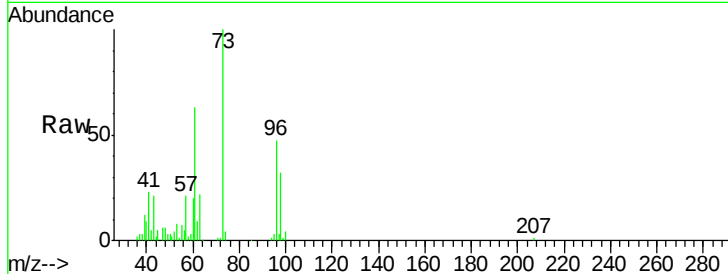
#19
Methyl tert-butyl Ether
Concen: 21.722 ug/l
RT: 5.48 min Scan# 605
Delta R.T. 0.00 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD0109SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	21.3	18.6	27.8

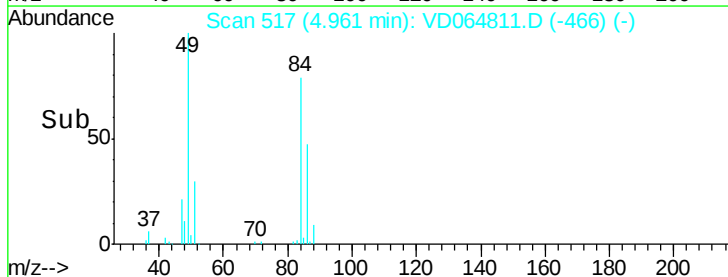
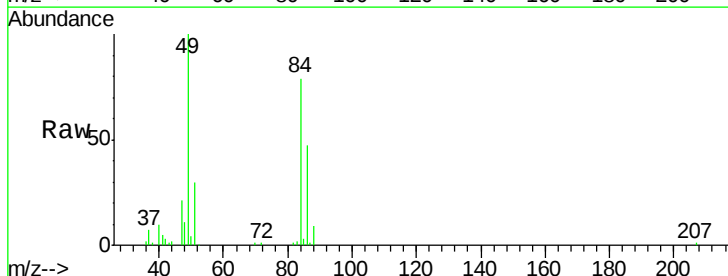
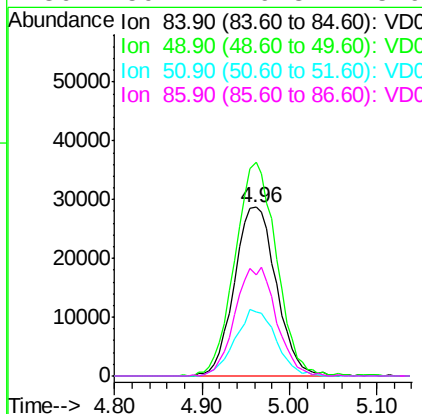
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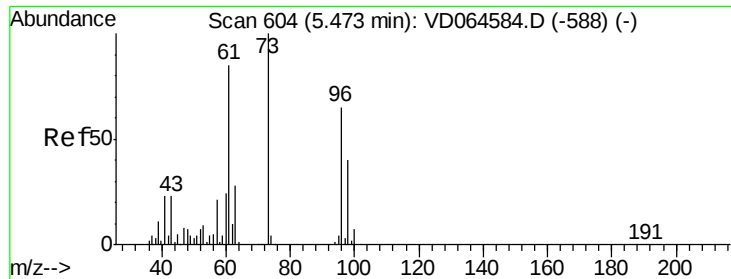
MMDadoda
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#20
Methylene Chloride
Concen: 23.659 ug/l
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Tgt Ion	Ratio	Lower	Upper
84	100		
49	126.5	97.2	145.8
51	38.0	31.4	47.0
86	59.7	49.3	73.9





#21

trans-1,2-Dichloroethene

Concen: 21.961 ug/l

RT: 5.47 min Scan# 603

Delta R.T. -0.01 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

Instrument :

MSVOA_D

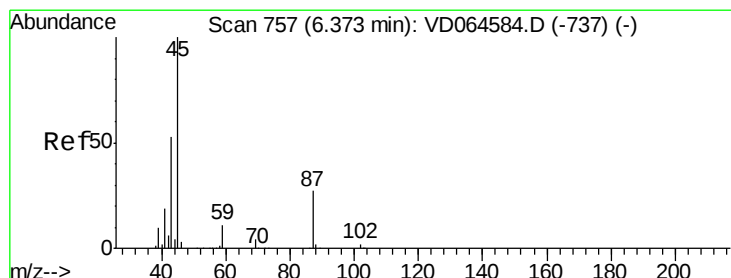
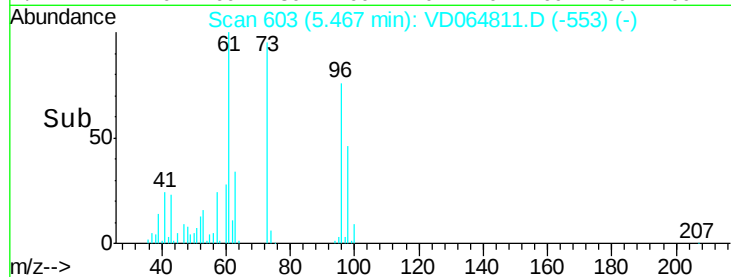
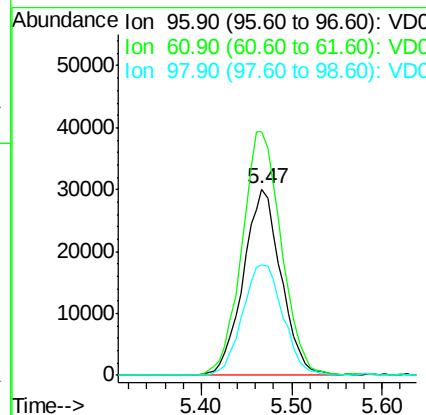
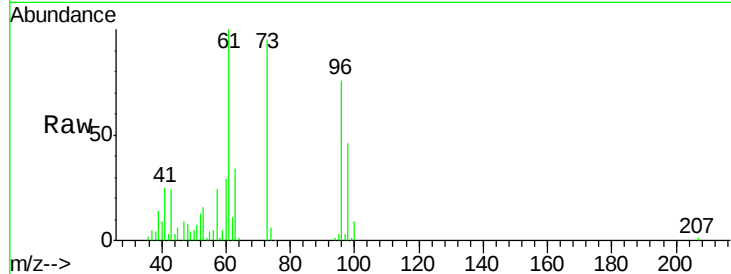
ClientSampleId :

VD0109SBS01

Tot Ion:	96	Resp:	86859
Ion	Ratio	Lower	Upper
96	100		
61	130.8	104.7	157.1
98	59.6	49.4	74.2

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#22

Diisopropyl ether

Concen: 22.555 ug/l

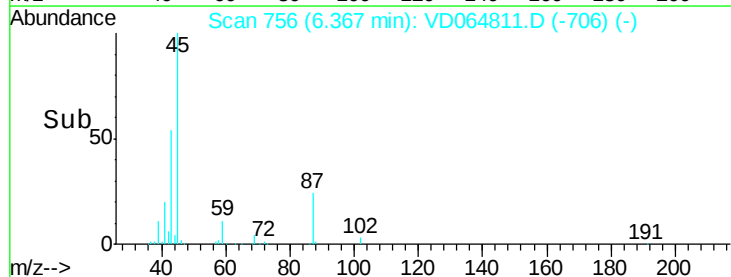
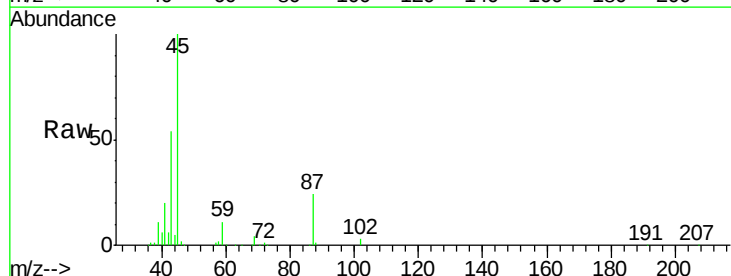
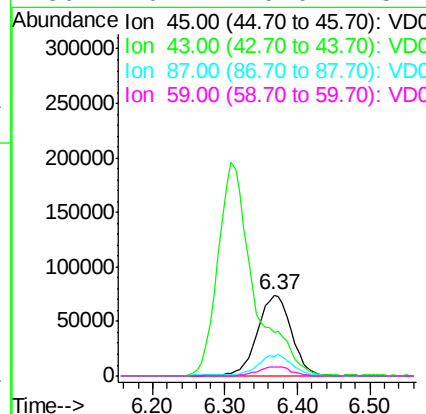
RT: 6.37 min Scan# 756

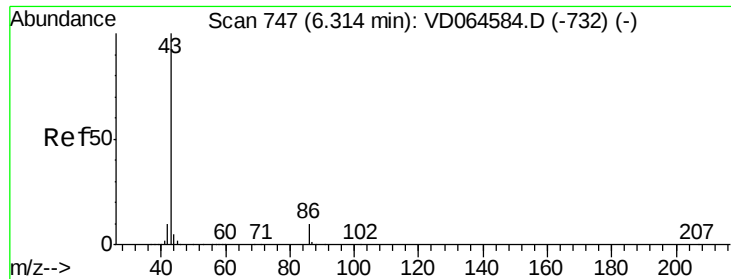
Delta R.T. -0.01 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

Tgt Ion:	45	Resp:	243606
Ion	Ratio	Lower	Upper
45	100		
43	53.2	43.2	64.8
87	24.2	21.9	32.9
59	10.2	9.0	13.4





#23

Vinyl Acetate

Concen: 109.643 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.01 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD0109SBS01

Tot Ion: 43 Resp: 671741

Ion Ratio Lower Upper

43 100

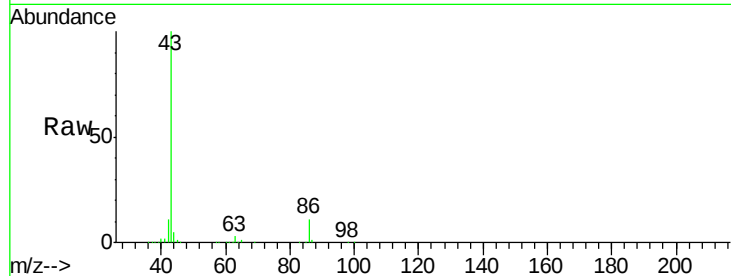
86 10.9 8.3 12.5

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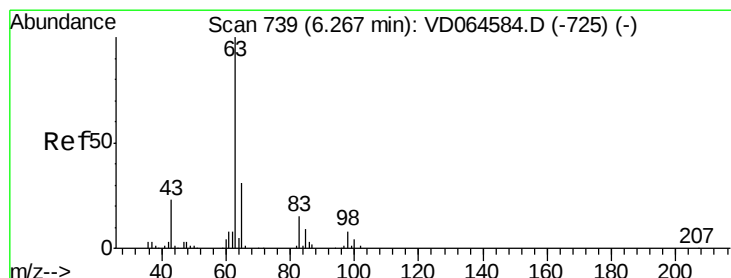
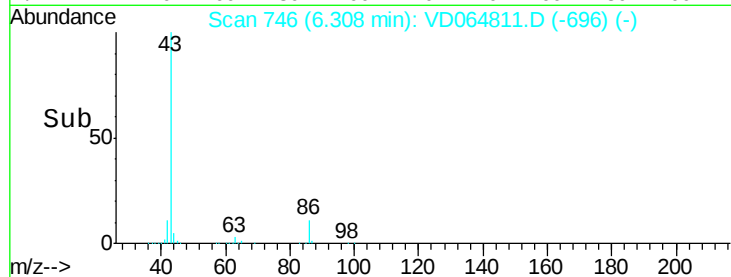
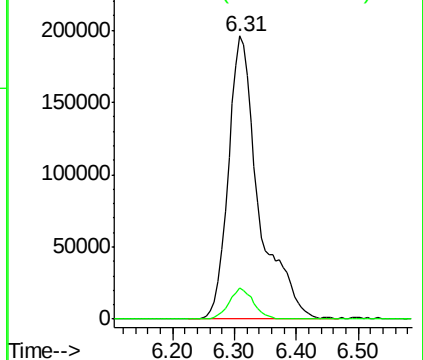
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Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 22.882 ug/l

RT: 6.27 min Scan# 739

Delta R.T. 0.00 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

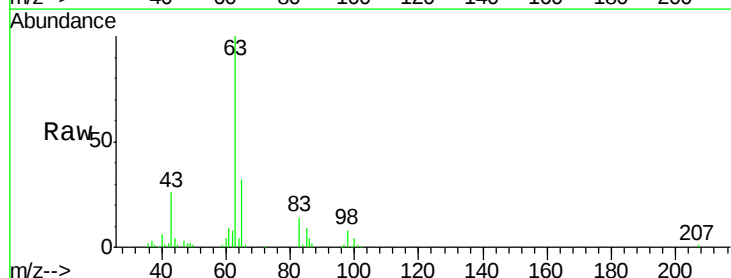
Tgt Ion: 63 Resp: 148363

Ion Ratio Lower Upper

63 100

98 8.1 4.1 12.3

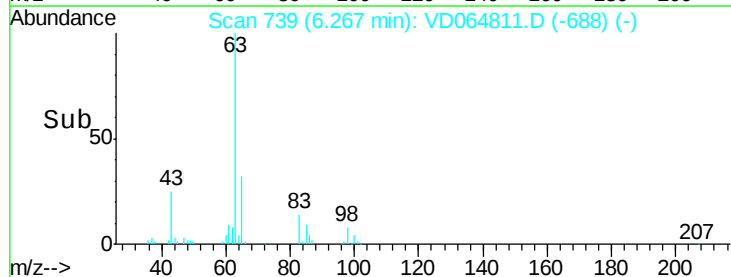
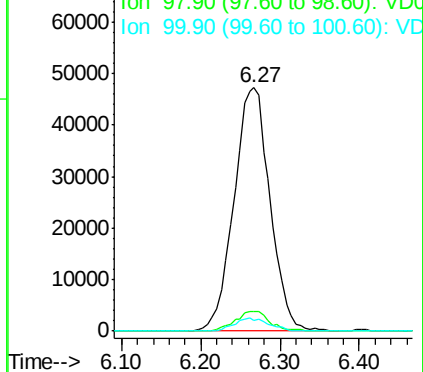
100 4.4 2.2 6.6

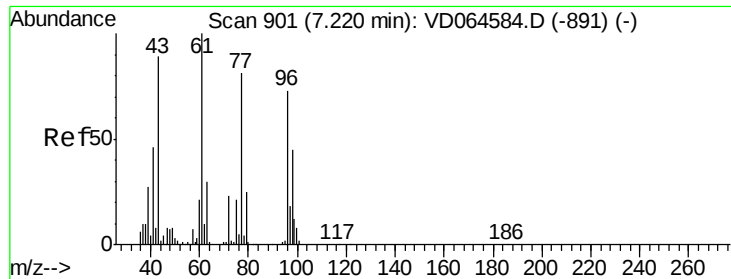


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 111.680 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.00 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD0109SBSD01

Tot Ion: 43 Resp: 106857

Ion Ratio Lower Upper

43 100

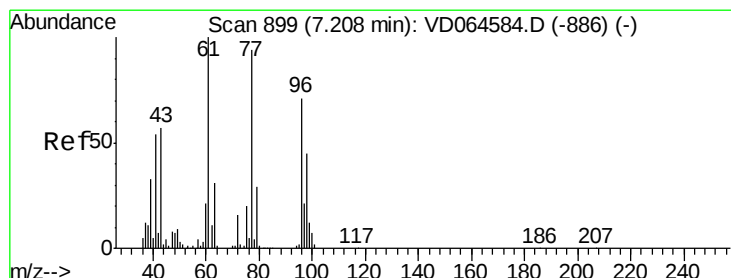
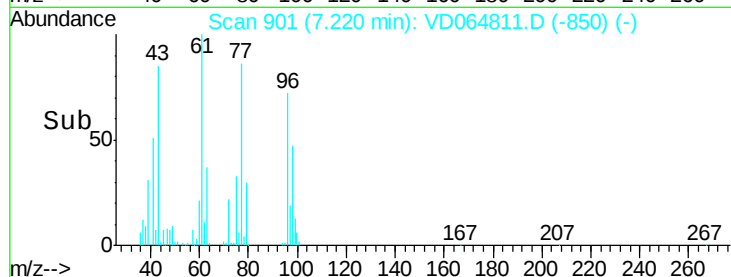
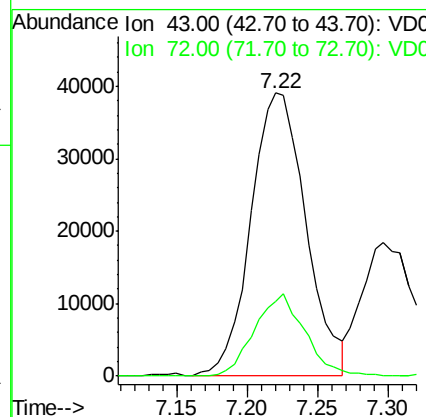
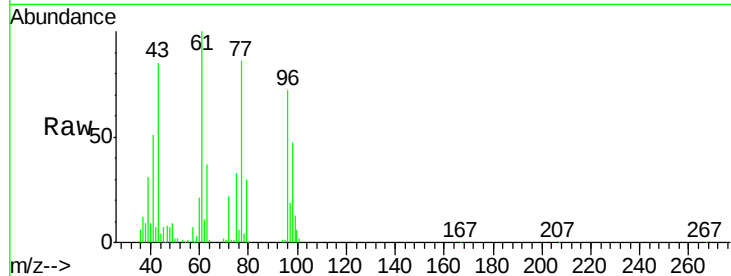
72 26.2 20.7 31.1

Manual Integrations

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1/10/2020 10:42:06 AM



#26

2,2-Dichloropropane

Concen: 23.235 ug/l

RT: 7.21 min Scan# 899

Delta R.T. 0.00 min

Lab File: VD064811.D

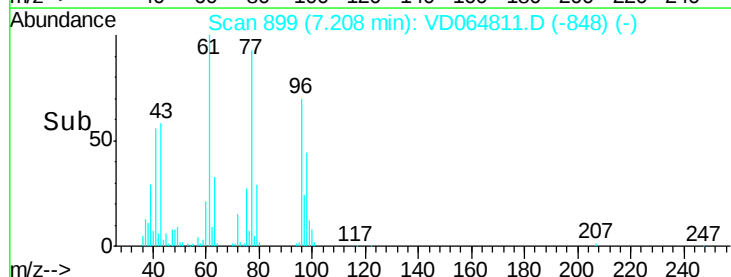
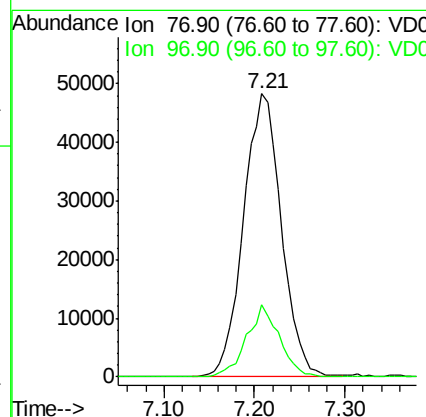
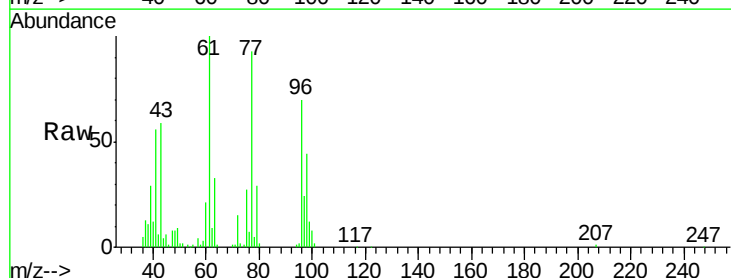
Acq: 09 Jan 2020 12:28

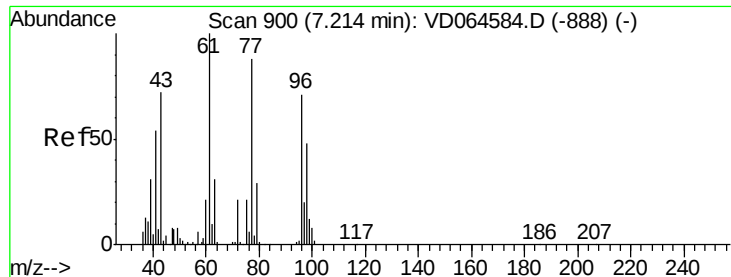
Tgt Ion: 77 Resp: 140067

Ion Ratio Lower Upper

77 100

97 22.0 11.2 33.6





#27

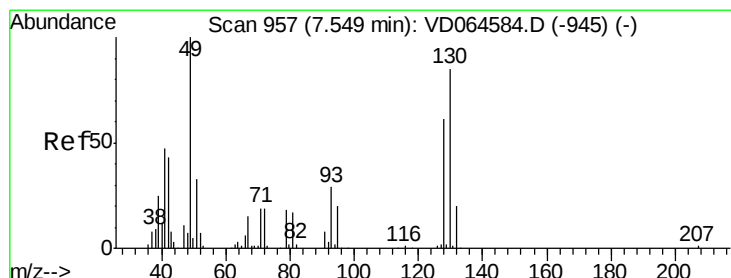
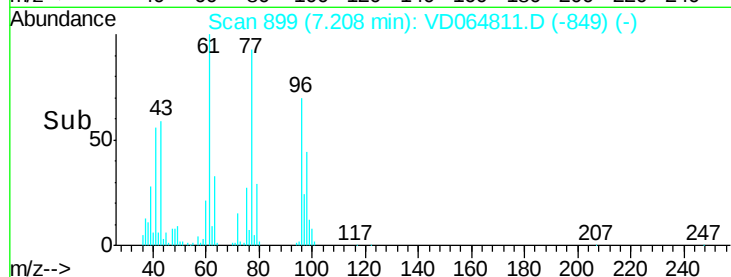
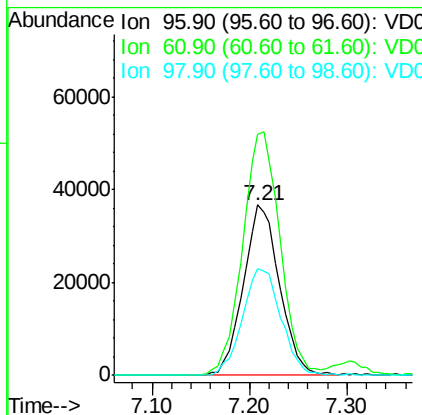
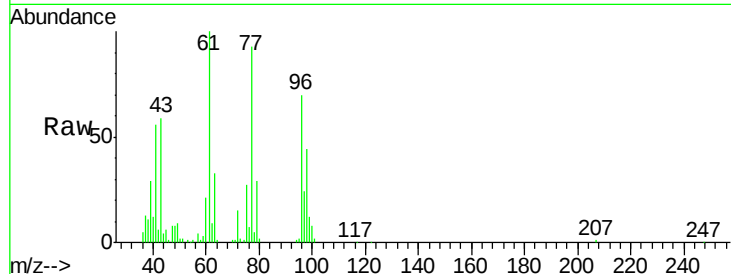
cis-1,2-Dichloroethene
 Concen: 22.231 ug/l
 RT: 7.21 min Scan# 899
 Delta R.T. -0.01 min
 Lab File: VD064811.D
 Acq: 09 Jan 2020 12:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0109SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	148.0	0.0	282.6
98	66.6	0.0	130.8

Manual Integrations
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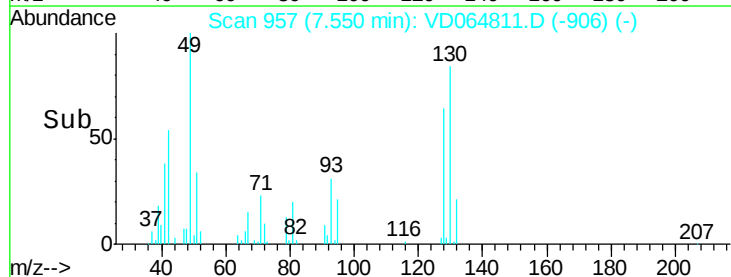
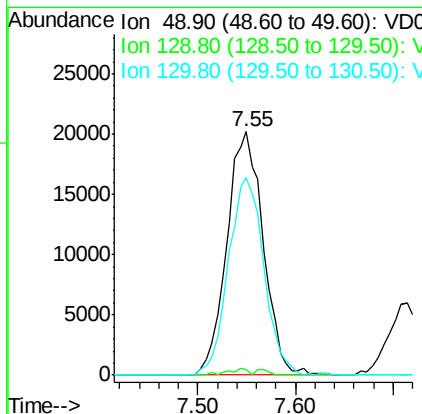
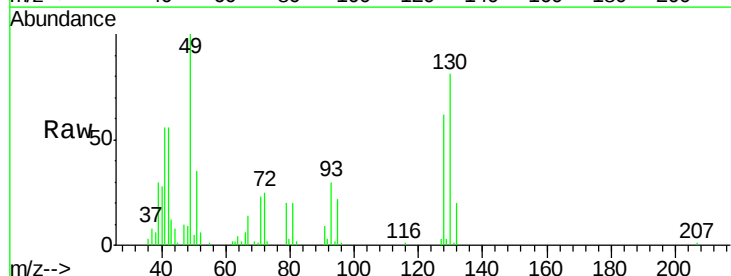
MMDadoda
 1/10/2020 10:42:06 AM

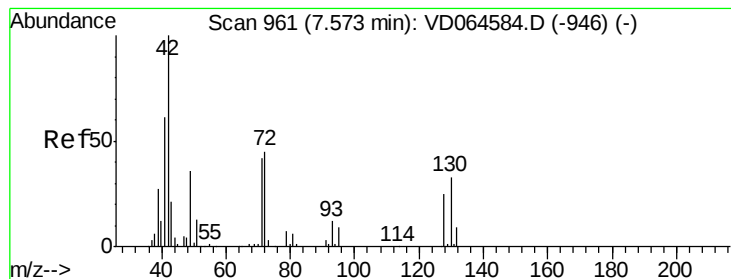


#28

Bromochloromethane
 Concen: 20.652 ug/l
 RT: 7.55 min Scan# 957
 Delta R.T. 0.00 min
 Lab File: VD064811.D
 Acq: 09 Jan 2020 12:28

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	4.8
130	79.3	65.0	97.6





#29

Tetrahydrofuran

Concen: 104.578 ug/l

RT: 7.57 min Scan# 961

Delta R.T. 0.00 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

Instrument :

MSVOA_D

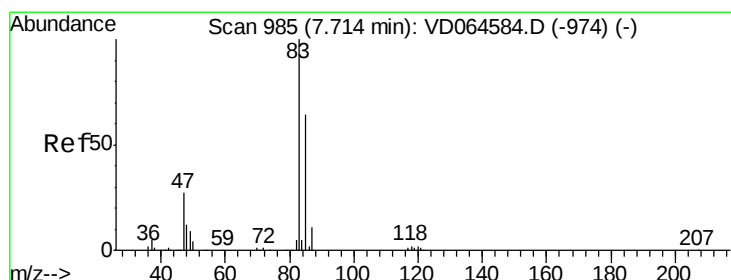
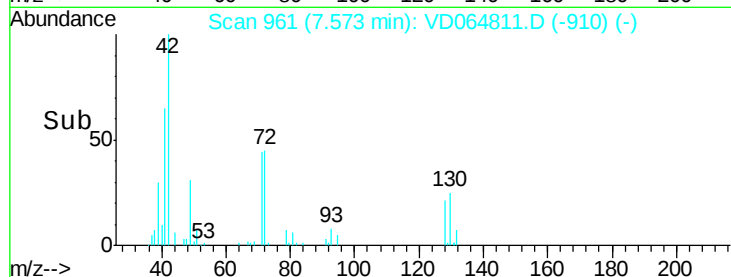
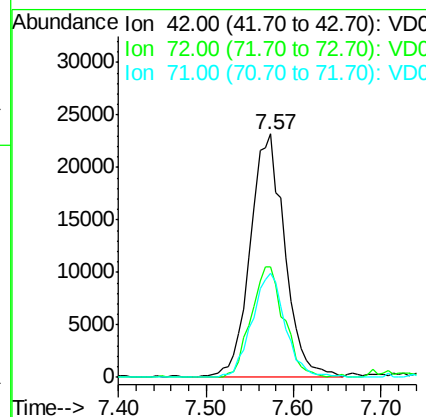
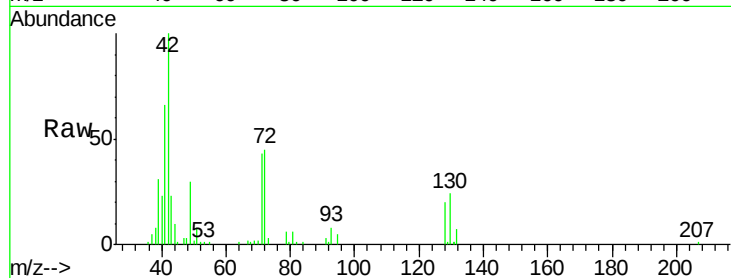
ClientSampleId :

VD0109SBS01

Tot Ion:	42	Resp:	62226
Ion	Ratio	Lower	Upper
42	100		
72	43.7	35.0	52.4
71	41.4	32.9	49.3

Manual Integrations
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#30

Chloroform

Concen: 22.801 ug/l

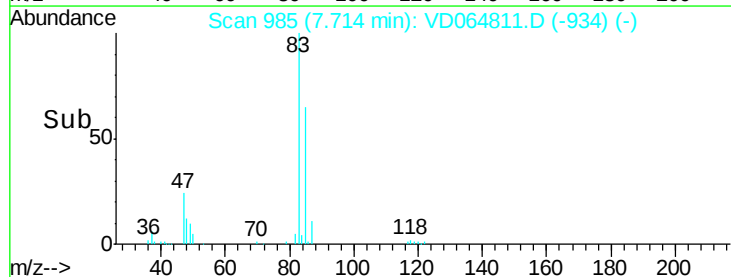
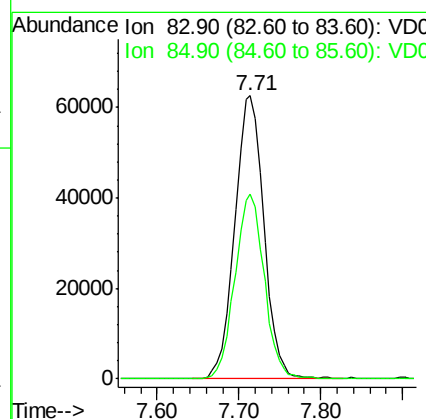
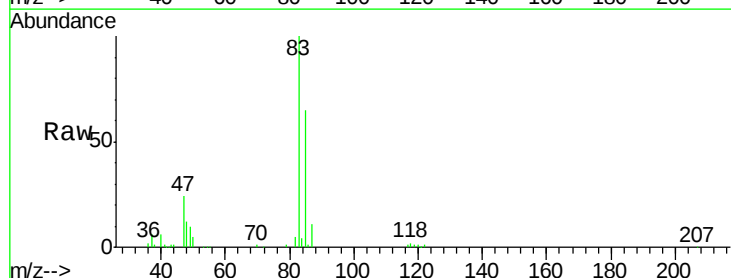
RT: 7.71 min Scan# 985

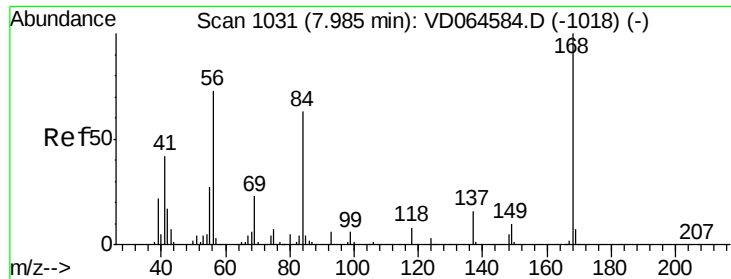
Delta R.T. 0.00 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

Tgt Ion:	83	Resp:	155104
Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.1	76.7





#31

Cyclohexane

Concen: 21.737 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD0109SBS01

Tot Ion: 56 Resp: 141080

Ion Ratio Lower Upper

56 100

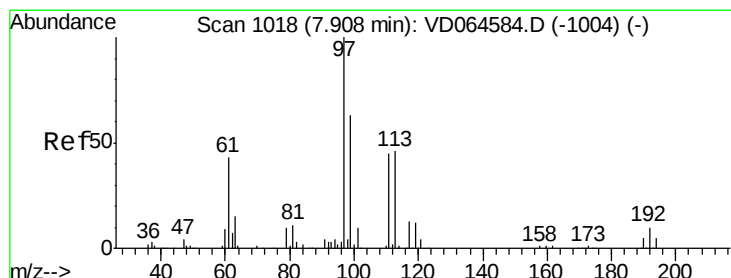
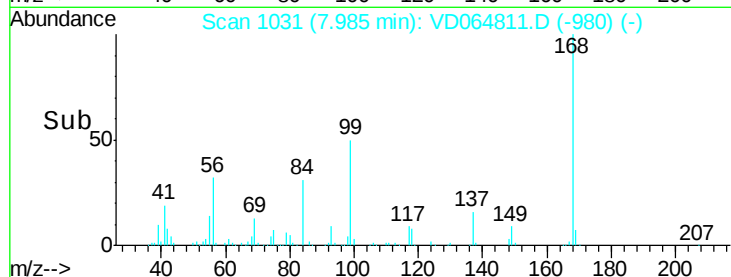
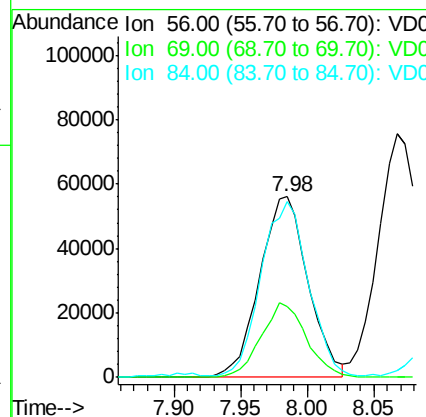
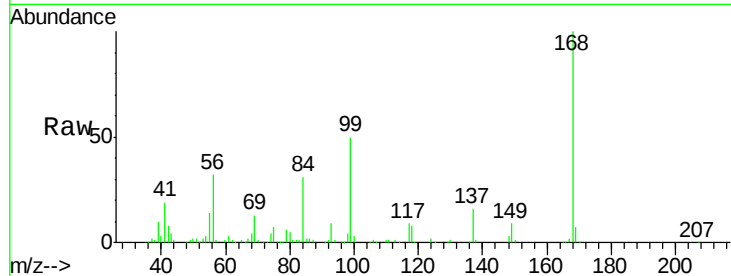
69 39.2 24.7 37.1#

84 95.2 69.4 104.2

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 22.992 ug/l

RT: 7.90 min Scan# 1017

Delta R.T. -0.01 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

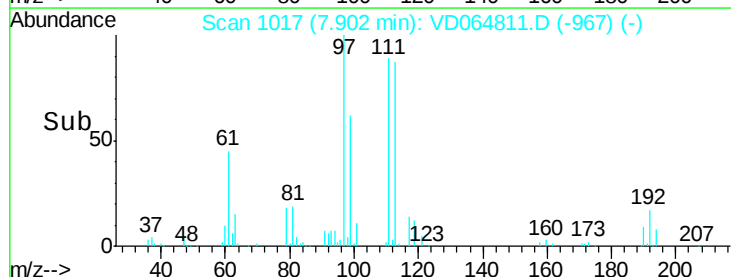
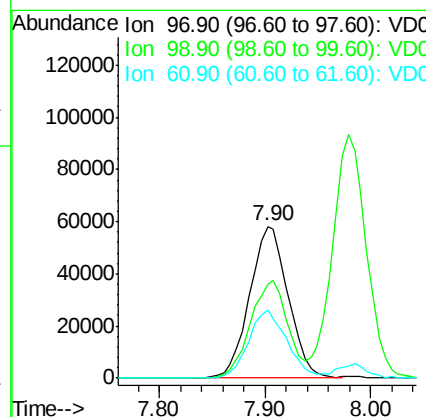
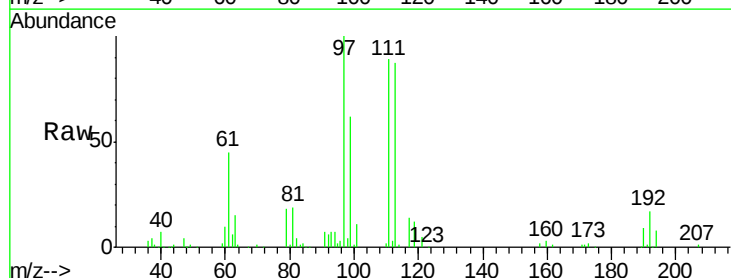
Tgt Ion: 97 Resp: 146909

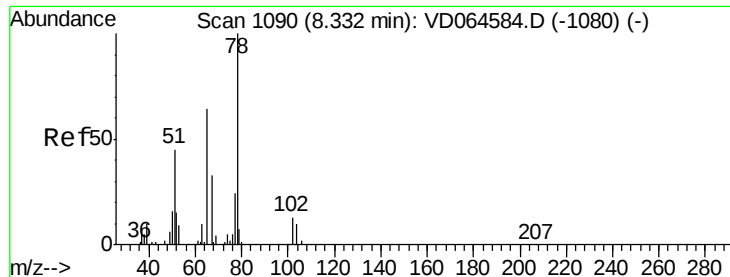
Ion Ratio Lower Upper

97 100

99 62.8 51.0 76.6

61 44.6 35.4 53.0





#33

1,2-Dichloroethane-d4

Concen: 55.362 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD0109SBS01

Tot Ion: 65 Resp: 192711

Ion Ratio Lower Upper

65 100

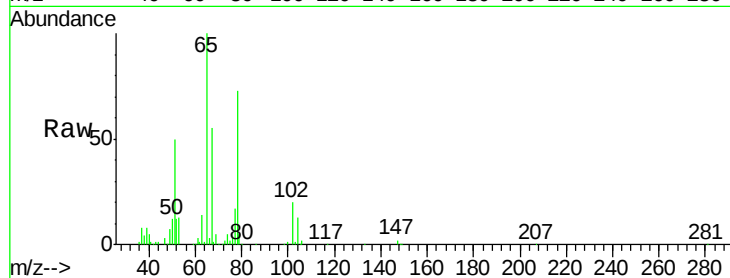
67 52.0 0.0 106.2

Manual Integrations

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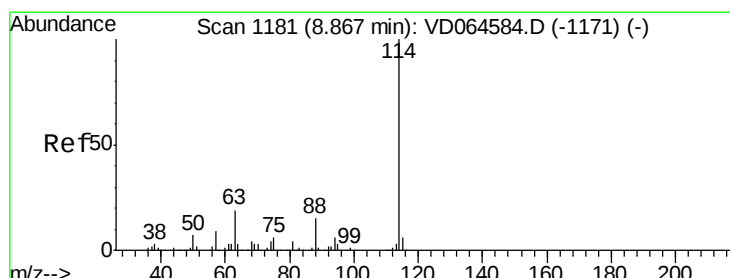
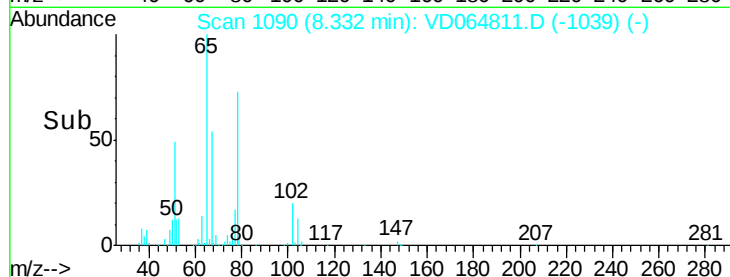
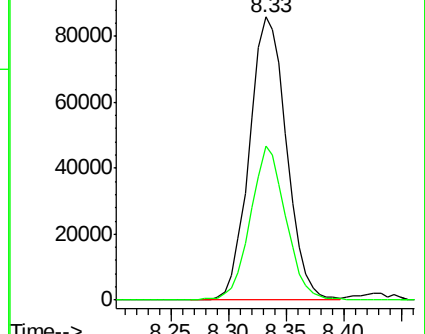
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Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

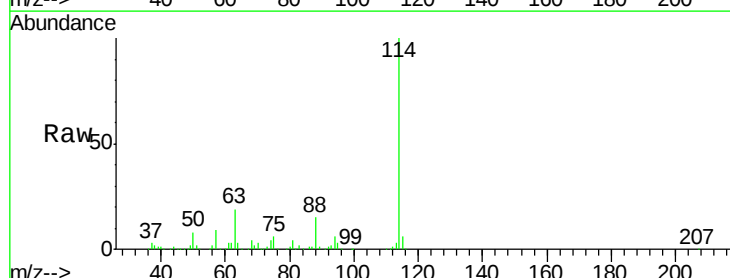
Tgt Ion: 114 Resp: 578531

Ion Ratio Lower Upper

114 100

63 19.4 0.0 38.0

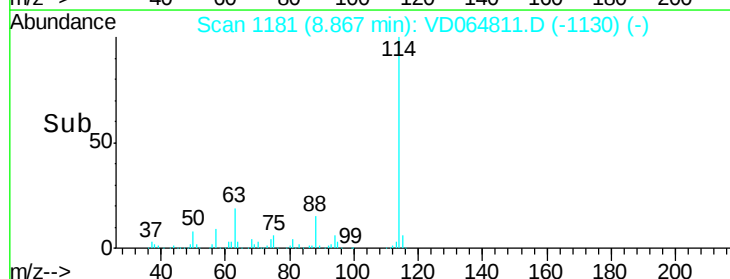
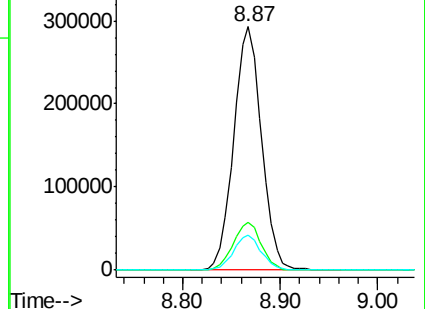
88 14.5 0.0 29.2

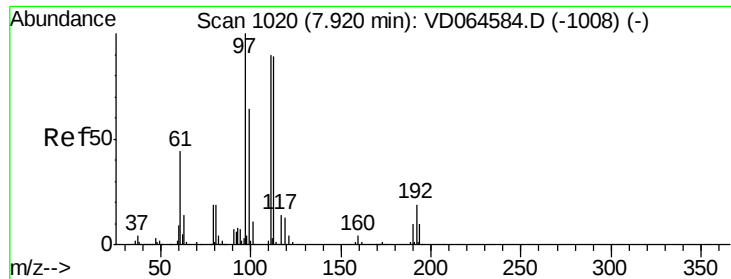


Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC





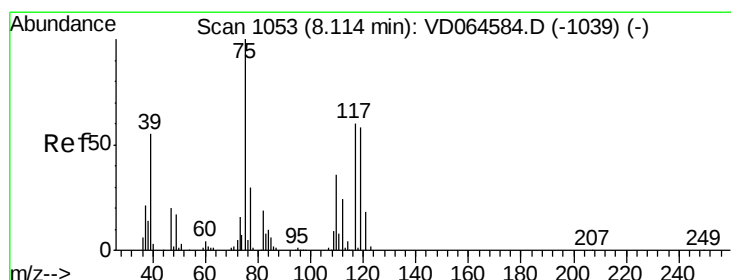
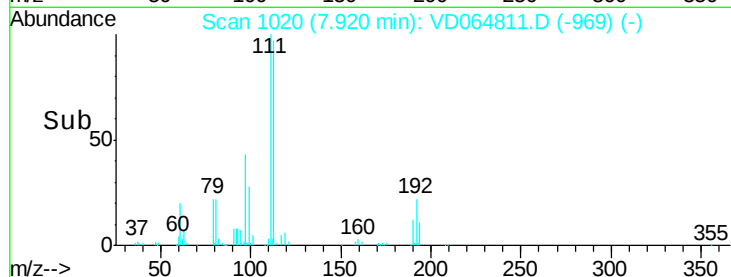
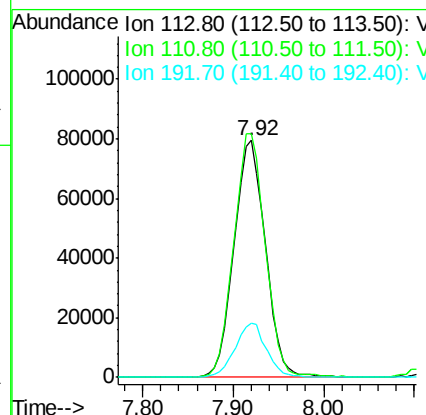
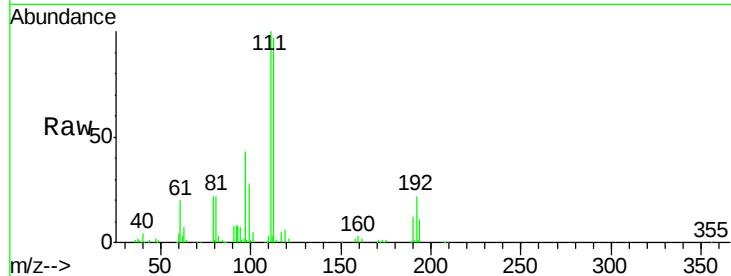
#35
 Dibromofluoromethane
 Concen: 53.996 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064811.D
 Acq: 09 Jan 2020 12:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0109SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	191653		
111	103.0	80.6	121.0	
192	22.9	17.9	26.9	

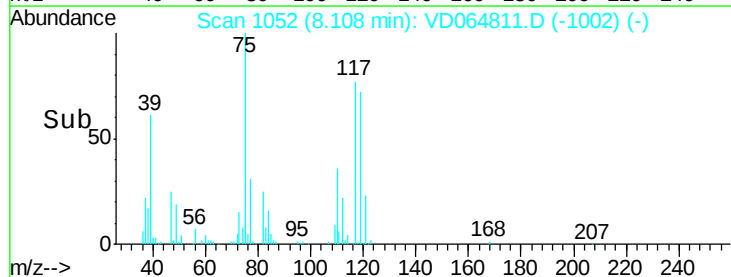
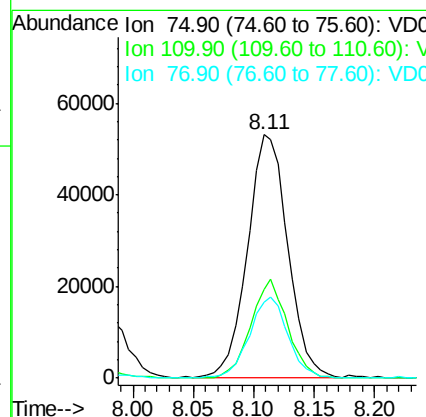
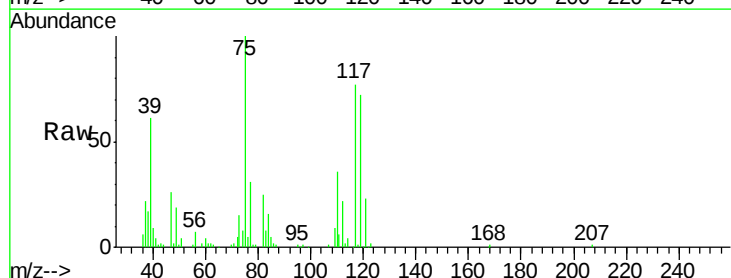
Manual Integrations
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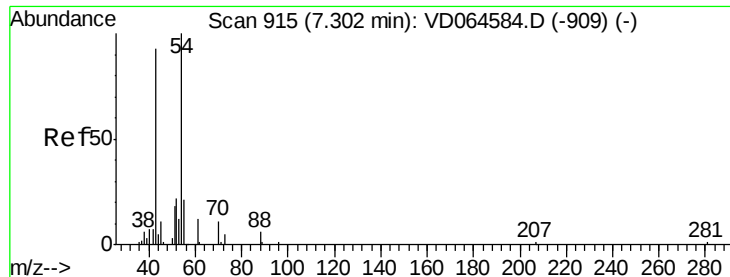
MMDadoda
 1/10/2020 10:42:06 AM



#36
 1,1-Dichloropropene
 Concen: 22.291 ug/l
 RT: 8.11 min Scan# 1052
 Delta R.T. -0.01 min
 Lab File: VD064811.D
 Acq: 09 Jan 2020 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	124126		
110	36.7	18.1	54.1	
77	32.0	24.2	36.4	





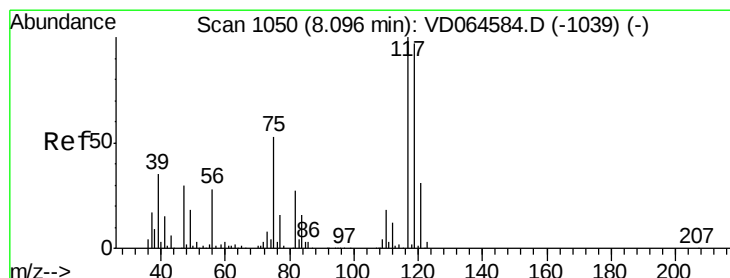
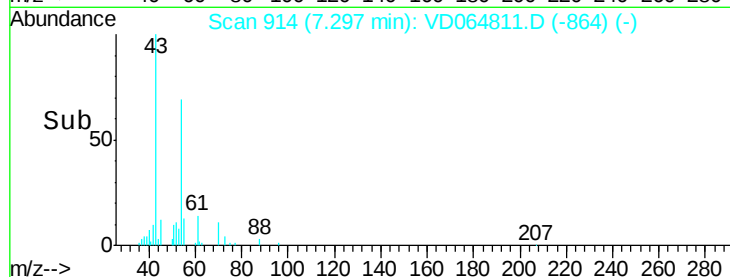
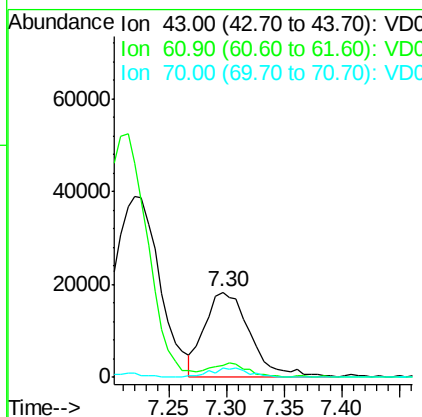
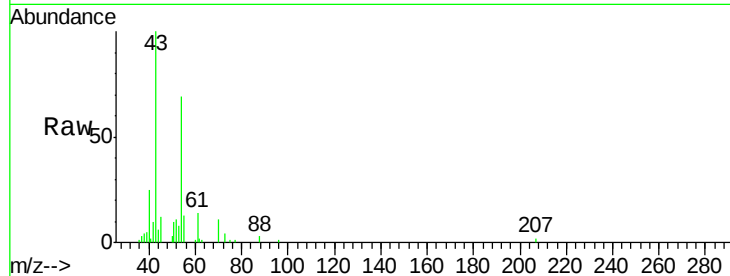
#37
Ethyl Acetate
Concen: 22.657 ug/l
RT: 7.30 min Scan# 914
Delta R.T. -0.01 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD0109SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.9	10.3	15.5
70	9.6	7.6	11.4

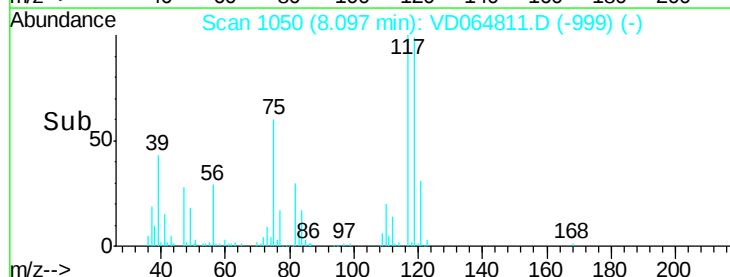
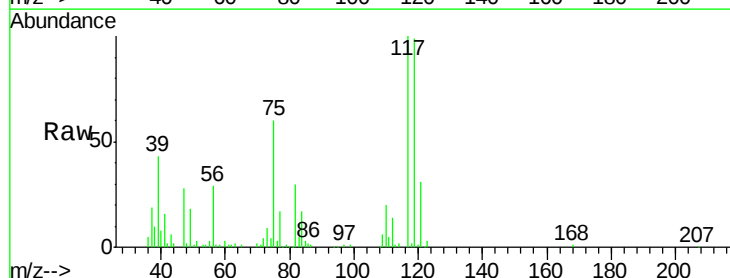
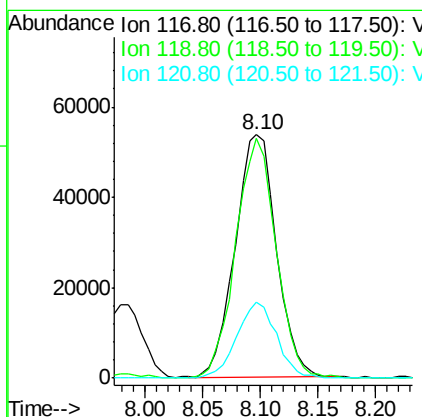
Manual Integrations
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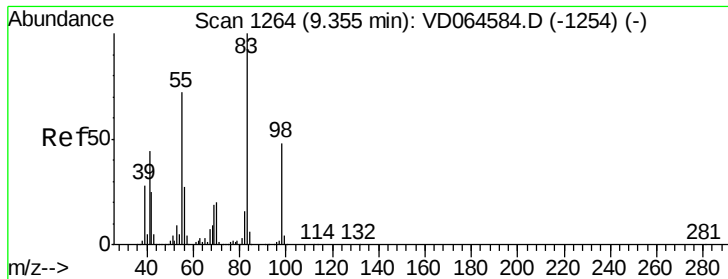
MMDadoda
1/10/2020 10:42:06 AM



#38
Carbon Tetrachloride
Concen: 22.453 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	99.1	77.3	115.9
121	31.3	25.0	37.6





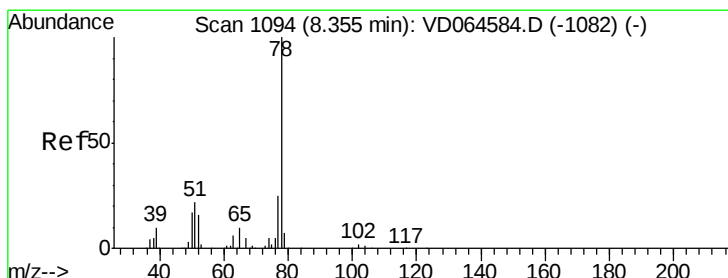
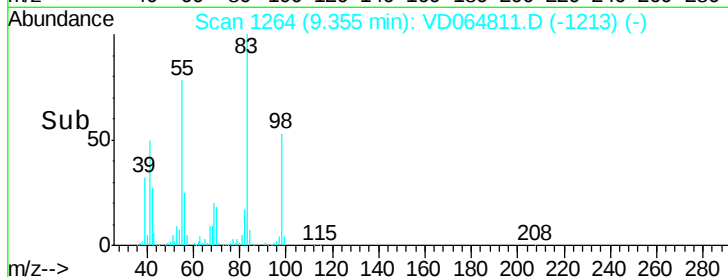
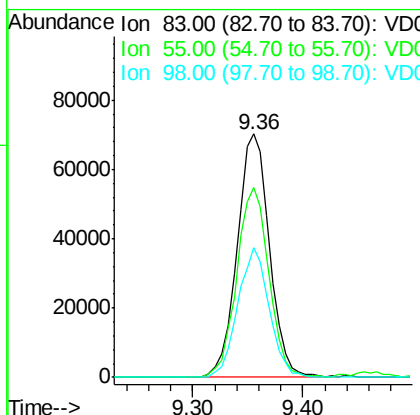
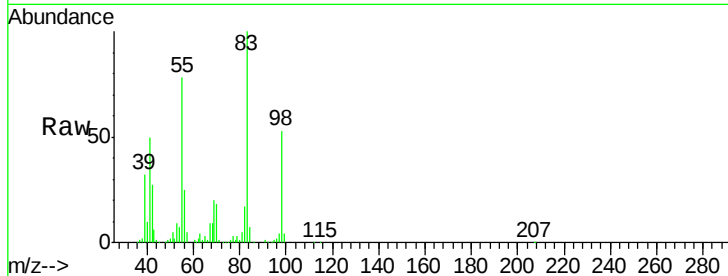
#39
Methvlcvclohexane
Concen: 21.381 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD0109SBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	78.1	57.8	86.6
98	53.4	38.7	58.1

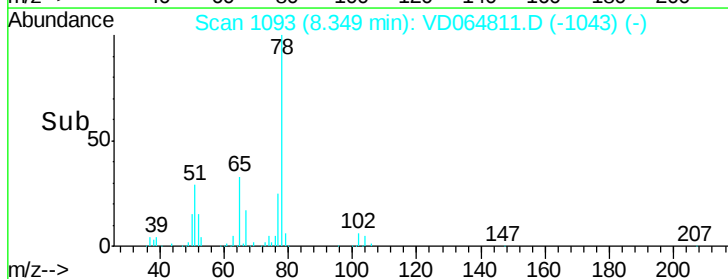
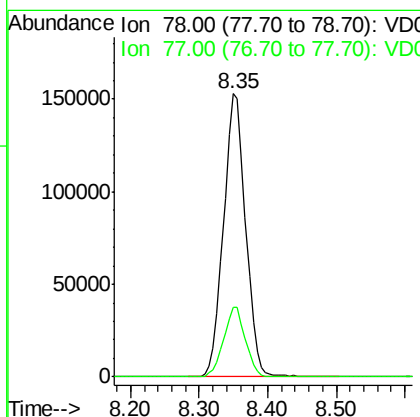
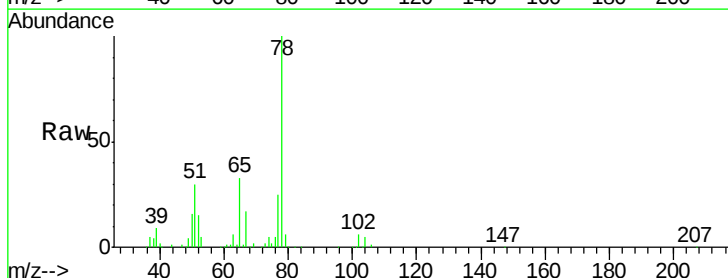
Manual Integrations
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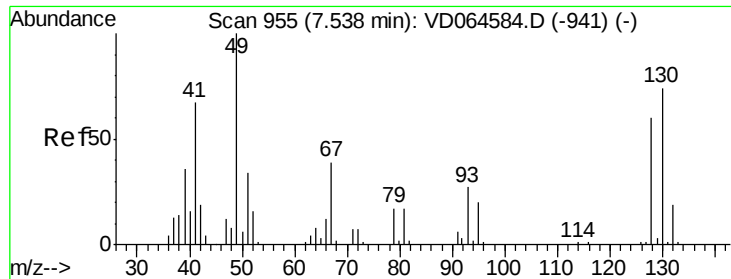
MMDadoda
1/10/2020 10:42:06 AM



#40
Benzene
Concen: 22.543 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.7	19.9	29.9





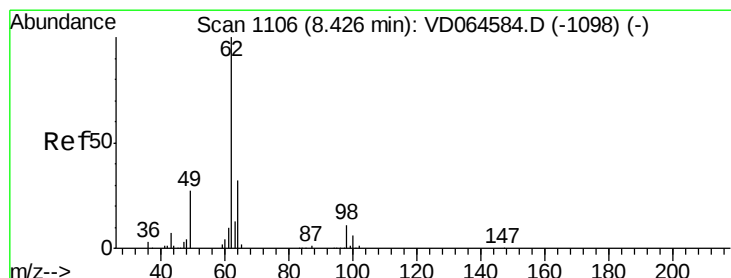
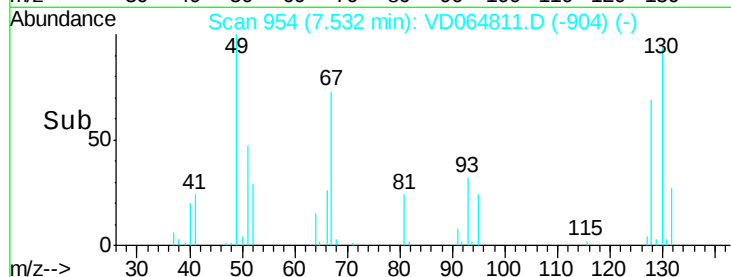
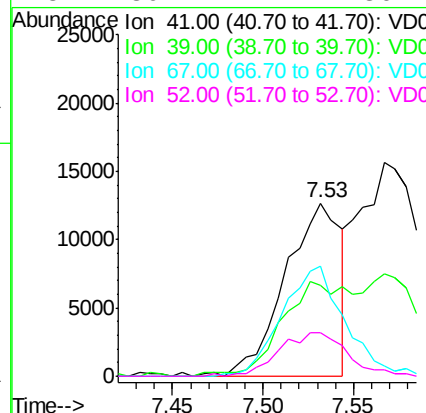
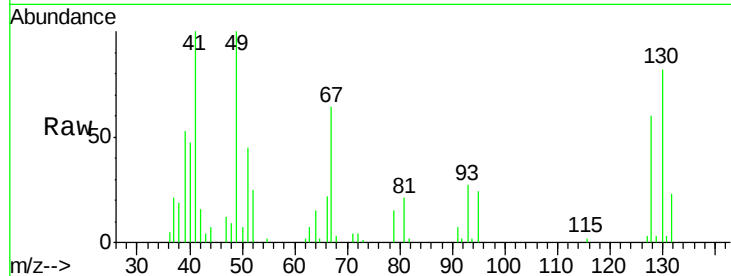
#41
Methacrylonitrile
Concen: 21.544 ug/l
RT: 7.53 min Scan# 954
Delta R.T. -0.01 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD0109SBS01

Tot Ion	41	Resp	27344
Ion Ratio	Lower	Upper	
41	100		
39	65.5	46.7	70.1
67	71.4	52.5	78.7
52	30.7	24.1	36.1

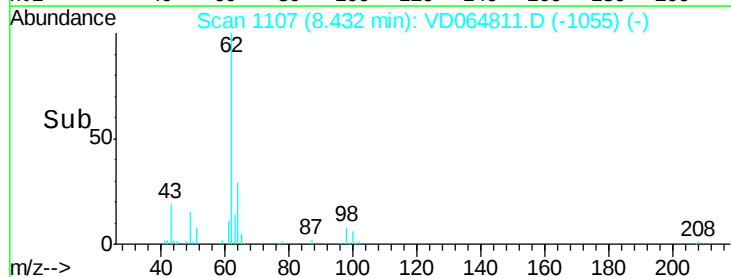
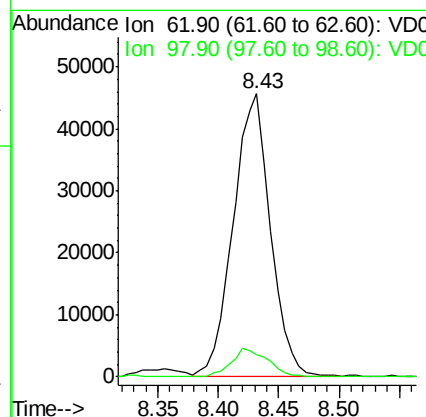
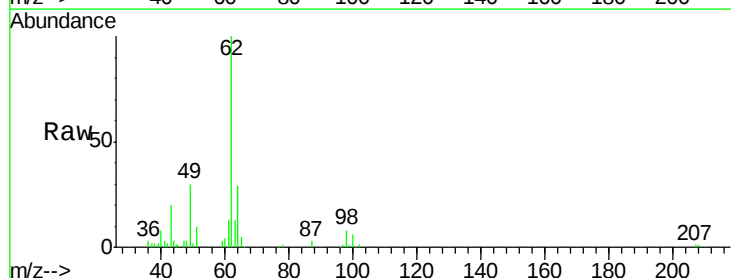
Manual Integrations
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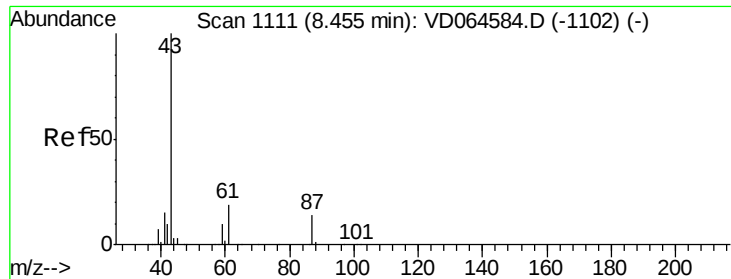
MMDadoda
1/10/2020 10:42:06 AM



#42
1,2-Dichloroethane
Concen: 22.358 ug/l
RT: 8.43 min Scan# 1107
Delta R.T. 0.01 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Tgt Ion	62	Resp	98210
Ion Ratio	Lower	Upper	
62	100		
98	9.9	0.0	20.0





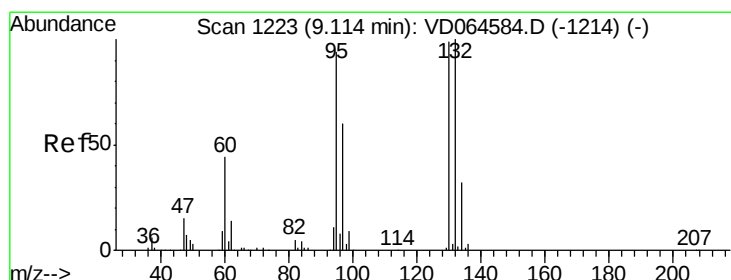
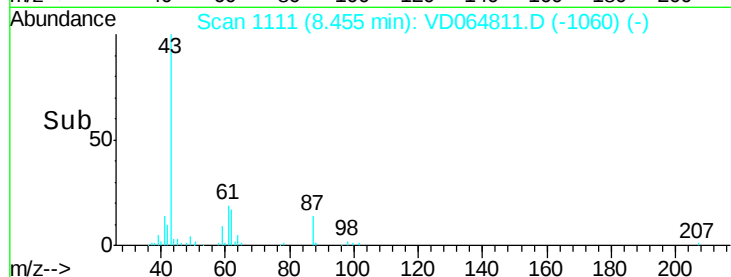
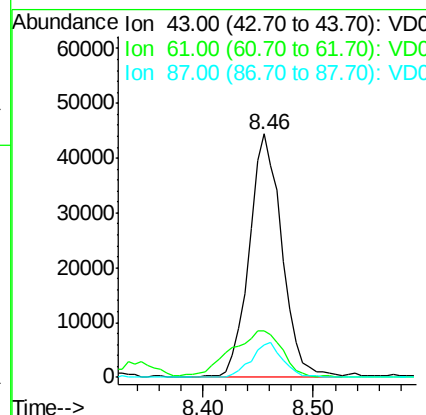
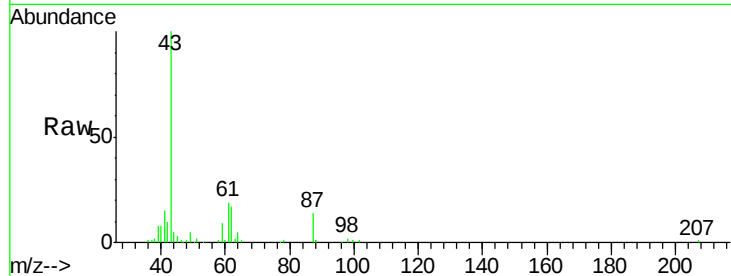
#43
Isopropyl Acetate
Concen: 21.294 ug/l
RT: 8.46 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD0109SBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	29.6	23.7	35.5
87	13.6	10.5	15.7

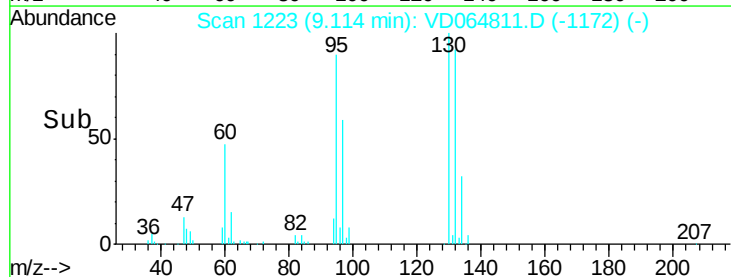
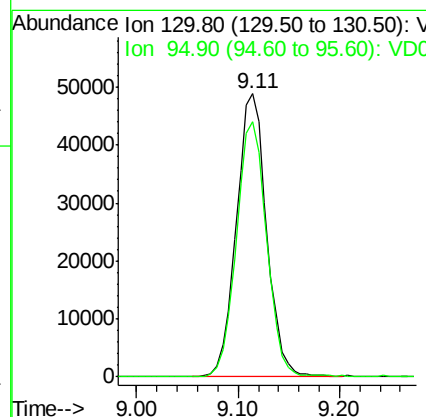
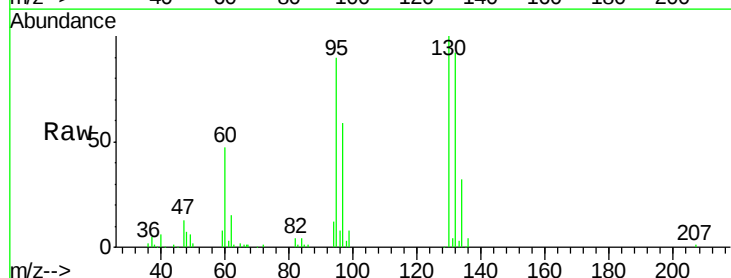
Manual Integrations
APPROVED

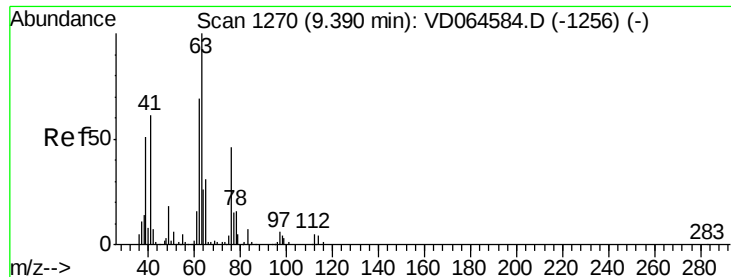
MMDadoda
1/10/2020 10:42:06 AM



#44
Trichloroethene
Concen: 22.548 ug/l
RT: 9.11 min Scan# 1223
Delta R.T. 0.00 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Tgt Ion	Ratio	Lower	Upper
130	100		
95	90.4	0.0	190.2





#45

1,2-Dichloropropane

Concen: 22.891 ug/l

RT: 9.39 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD0109SBS01

Tot Ion: 63 Resp: 83080

Ion Ratio Lower Upper

63 100

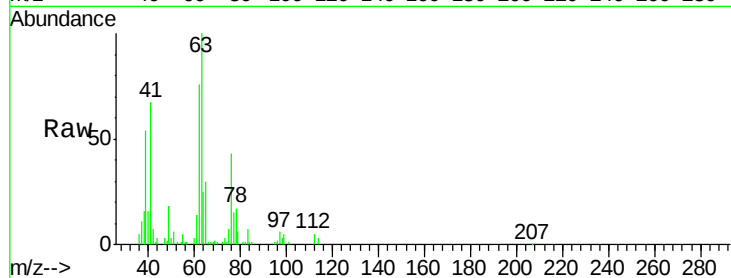
65 30.0 25.2 37.8

Manual Integrations

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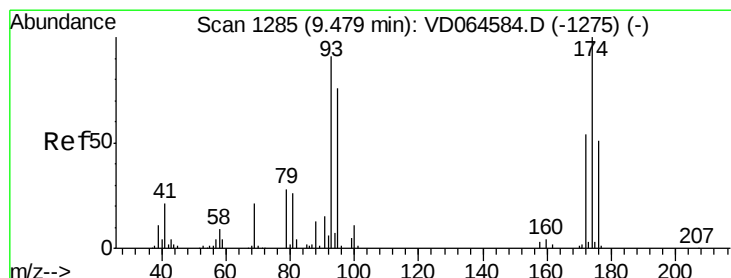
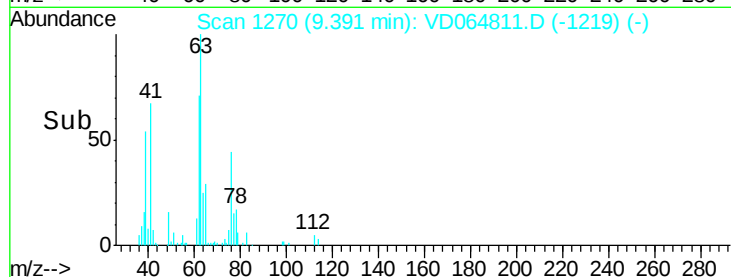
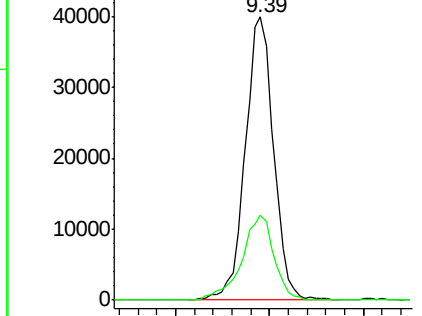
MMDadoda

1/10/2020 10:42:06 AM



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 64.90 (64.60 to 65.60): VDC



#46

Dibromomethane

Concen: 22.111 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. 0.00 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

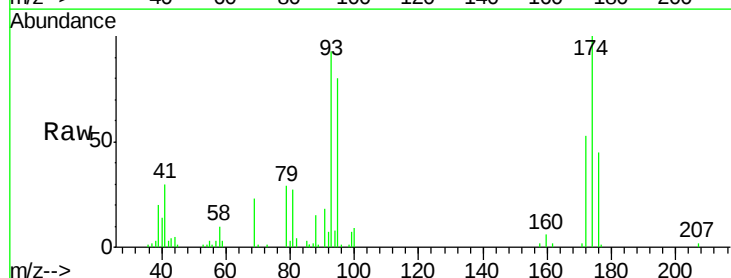
Tgt Ion: 93 Resp: 44742

Ion Ratio Lower Upper

93 100

95 84.4 64.6 97.0

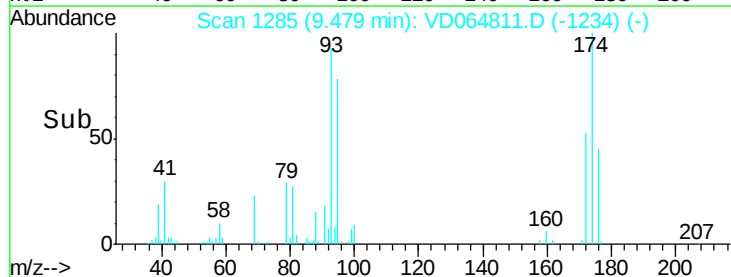
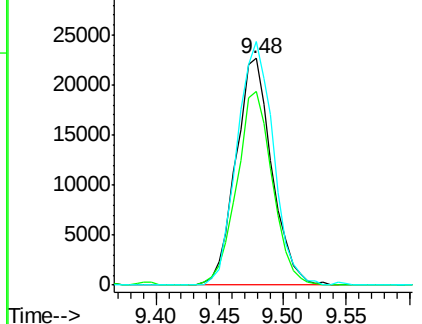
174 108.5 88.1 132.1

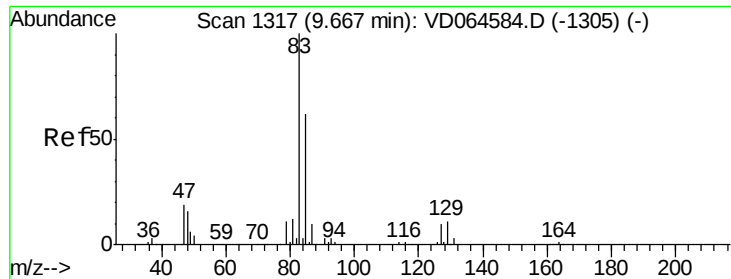


Abundance Ion 92.80 (92.50 to 93.50): VDC

Ion 94.80 (94.50 to 95.50): VDC

Ion 173.70 (173.40 to 174.40): V





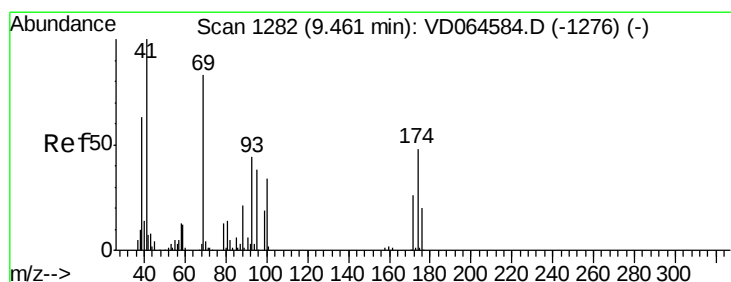
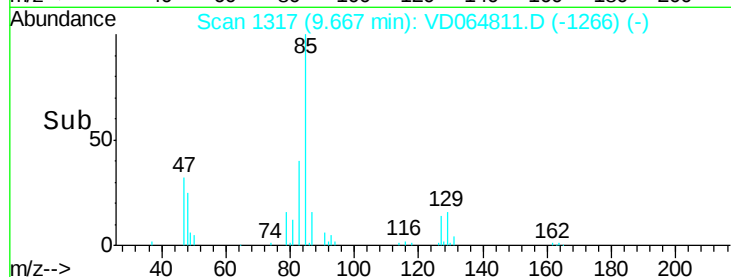
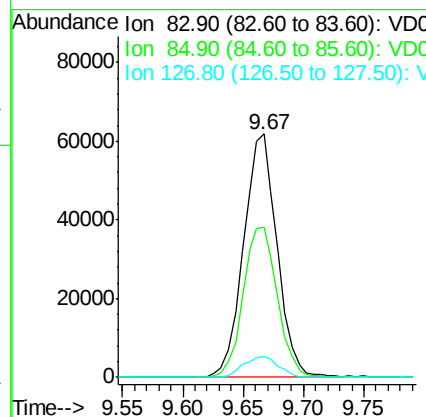
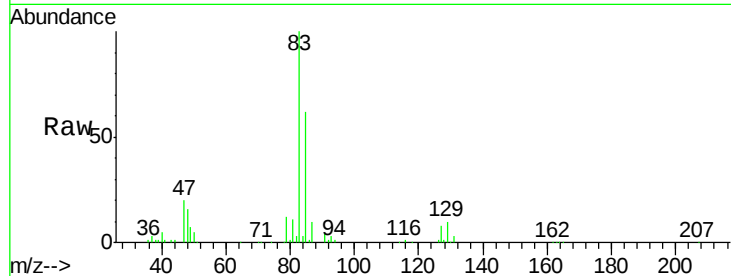
#47
Bromodichloromethane
Concen: 22.120 ug/l
RT: 9.67 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD0109SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	119107		
85	61.9	49.5	74.3	
127	8.5	7.8	11.6	

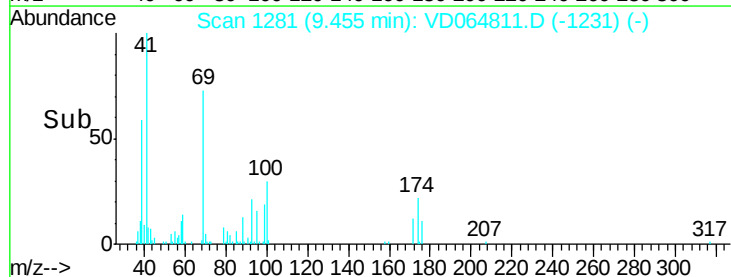
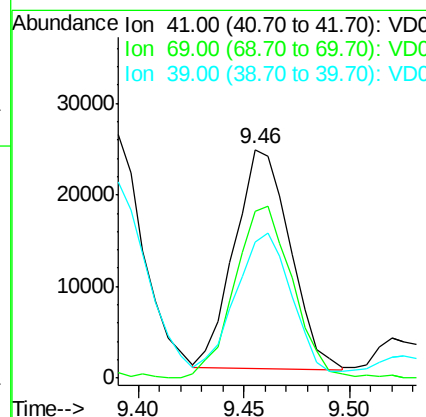
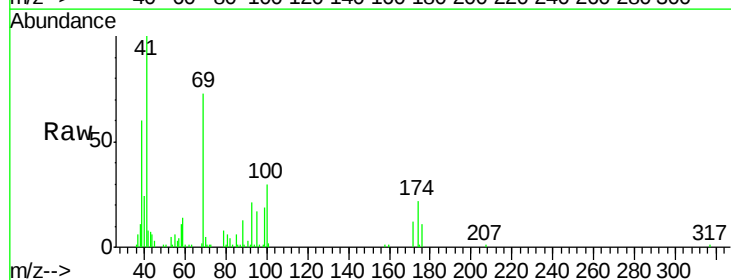
Manual Integrations
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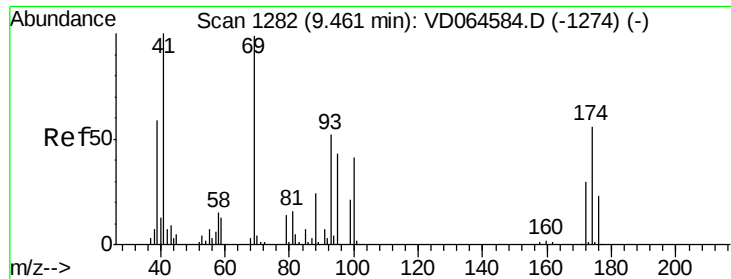
MMDadoda
1/10/2020 10:42:06 AM



#48
Methyl methacrylate
Concen: 21.384 ug/l
RT: 9.46 min Scan# 1281
Delta R.T. -0.01 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	43840		
69	81.5	63.0	94.6	
39	68.8	47.4	71.2	





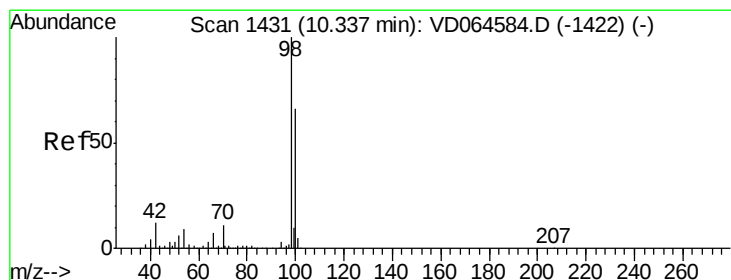
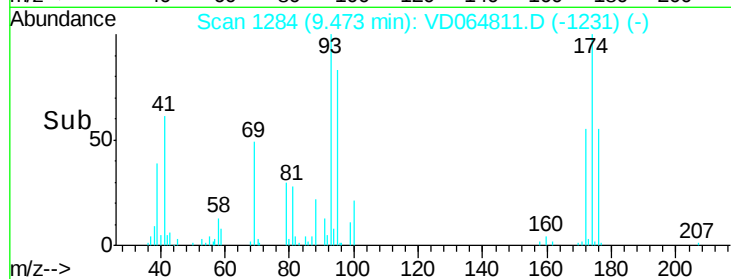
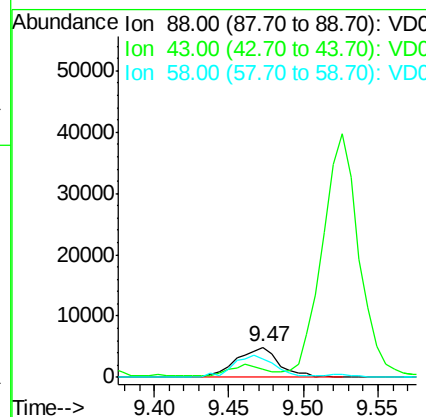
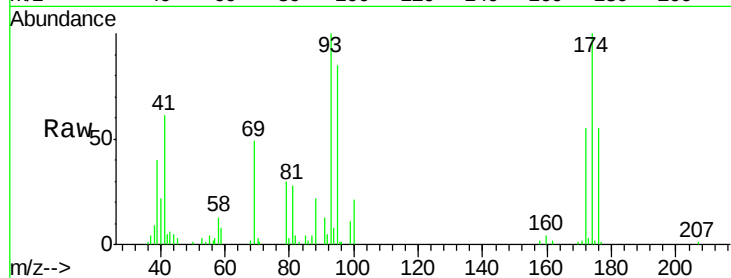
#49
1,4-Dioxane
Concen: 414.354 ug/l
RT: 9.47 min Scan# 1284
Delta R.T. 0.01 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD0109SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.5	27.7	41.5
58	72.5	53.8	80.6

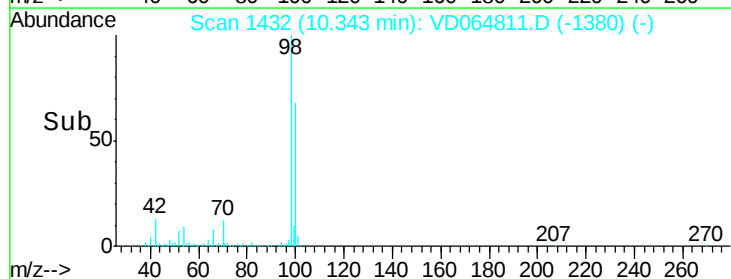
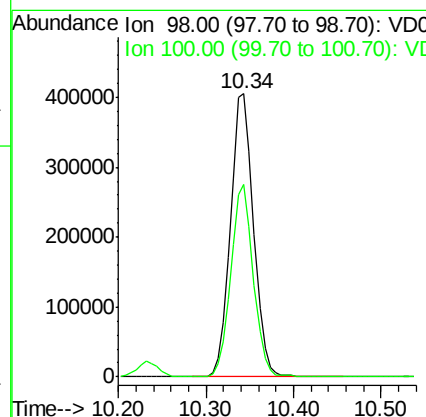
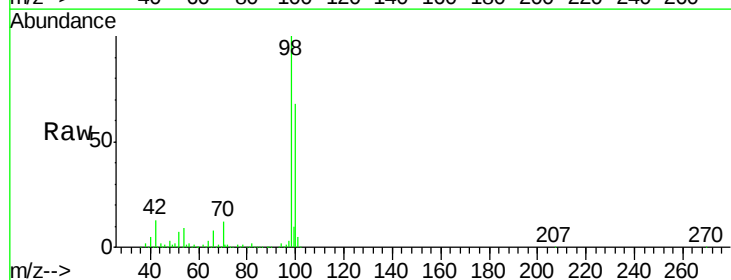
Manual Integrations
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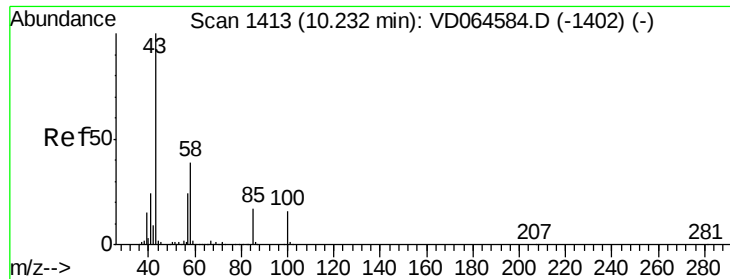
MMDadoda
1/10/2020 10:42:06 AM



#50
Toluene-d8
Concen: 53.829 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.9	51.7	77.5





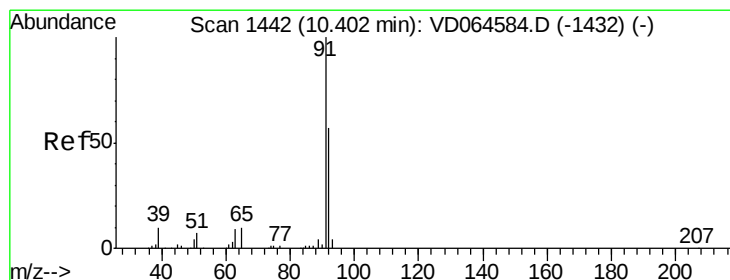
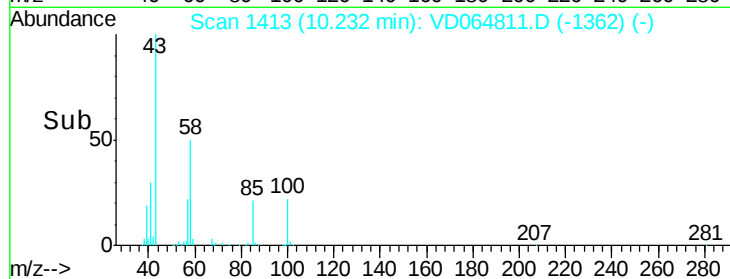
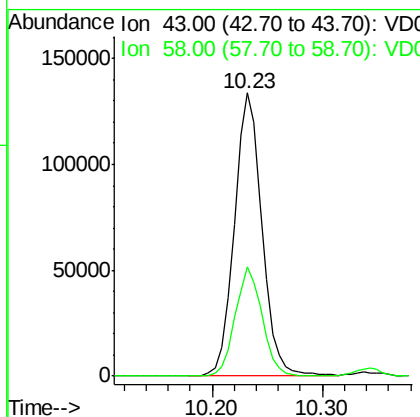
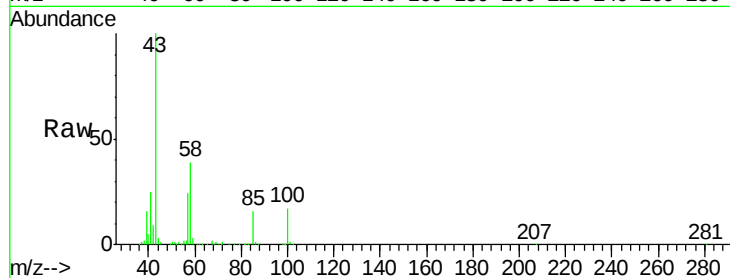
#51
4-Methyl-2-Pentanone
Concen: 109.408 ug/l
RT: 10.23 min Scan# 1413
Delta R.T. 0.00 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD0109SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	37.5	30.2	45.2

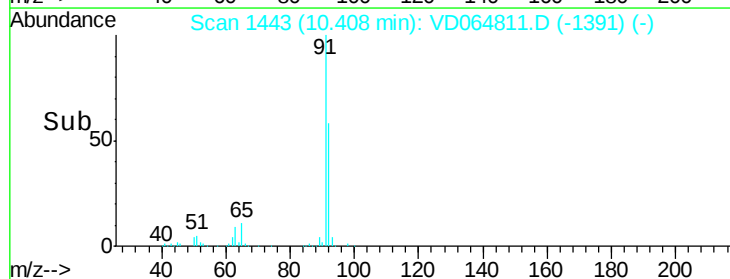
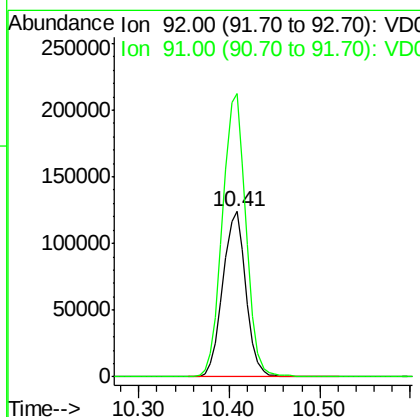
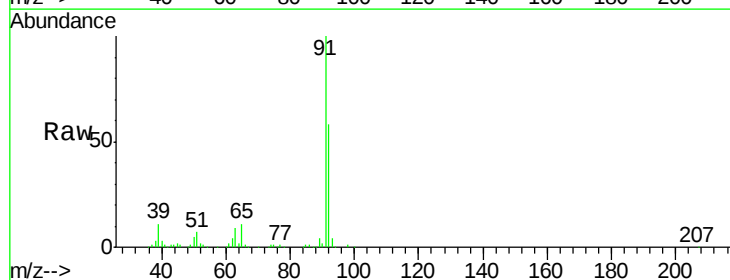
Manual Integrations
APPROVED

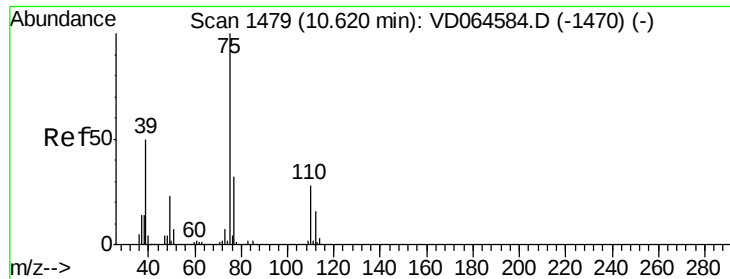
MMDadoda
1/10/2020 10:42:06 AM



#52
Toluene
Concen: 21.941 ug/l
RT: 10.41 min Scan# 1443
Delta R.T. 0.01 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Tgt Ion	Ratio	Lower	Upper
92	100		
91	173.9	138.7	208.1





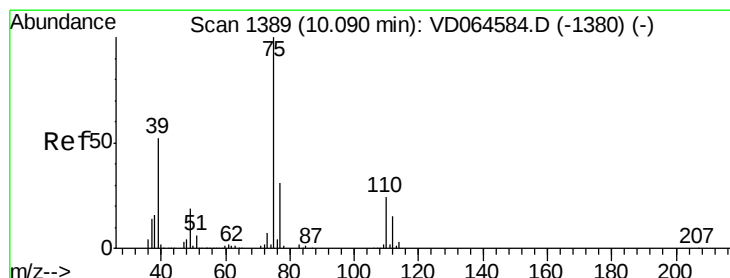
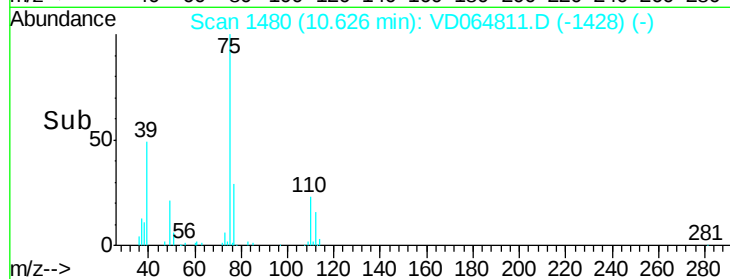
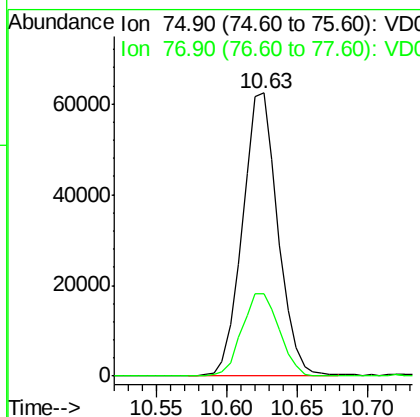
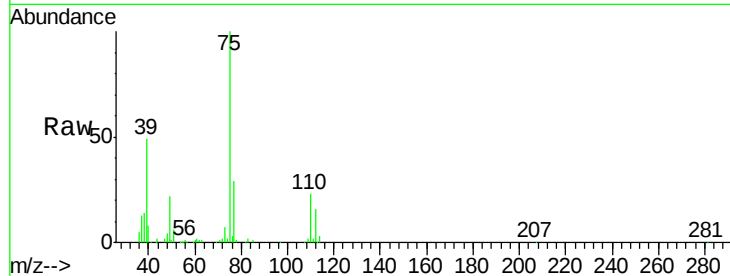
#53
t-1,3-Dichloropropene
Concen: 21.889 ug/l
RT: 10.63 min Scan# 1480
Delta R.T. 0.01 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD0109SBS01

Tot Ion: 75 Resp: 109887
Ion Ratio Lower Upper
75 100
77 29.1 25.4 38.2

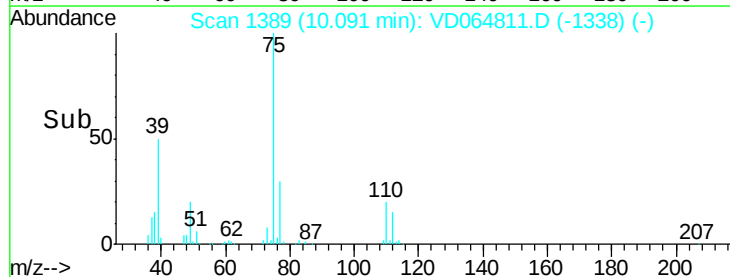
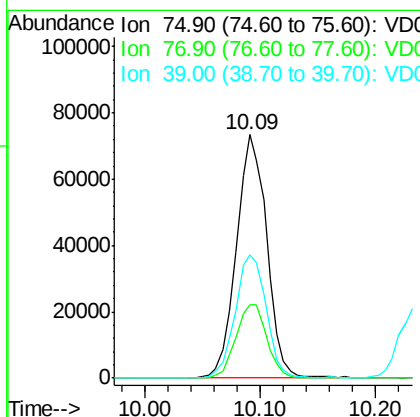
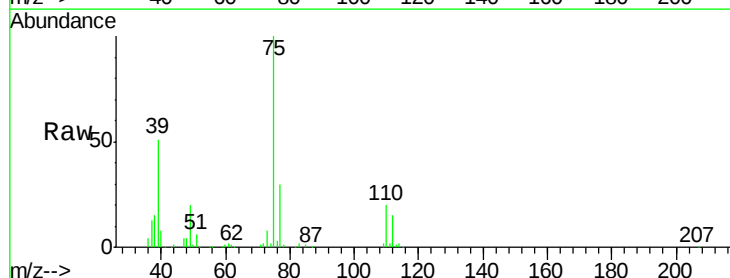
Manual Integrations
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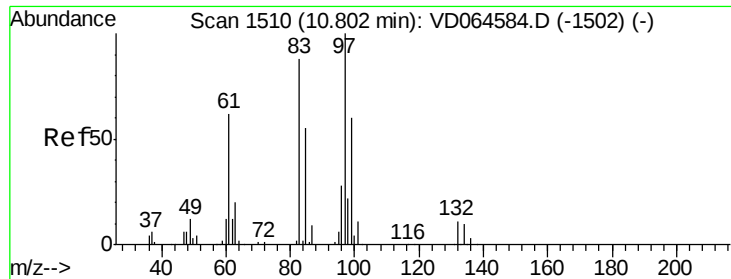
MMDadoda
1/10/2020 10:42:06 AM



#54
cis-1,3-Dichloropropene
Concen: 22.591 ug/l
RT: 10.09 min Scan# 1389
Delta R.T. 0.00 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Tgt Ion: 75 Resp: 133727
Ion Ratio Lower Upper
75 100
77 30.0 24.6 36.8
39 50.5 41.4 62.2





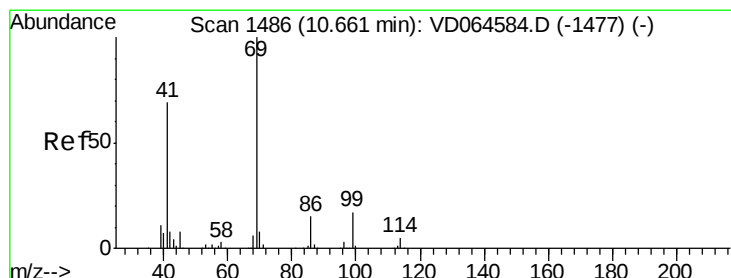
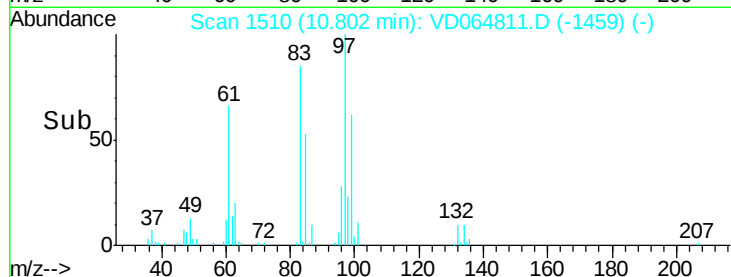
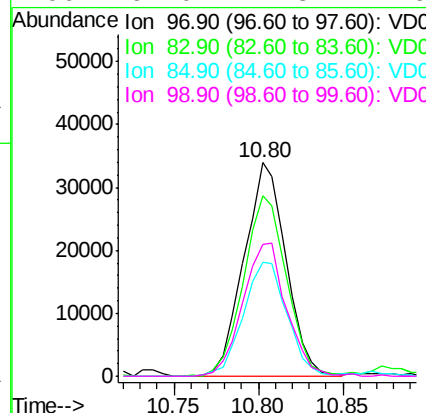
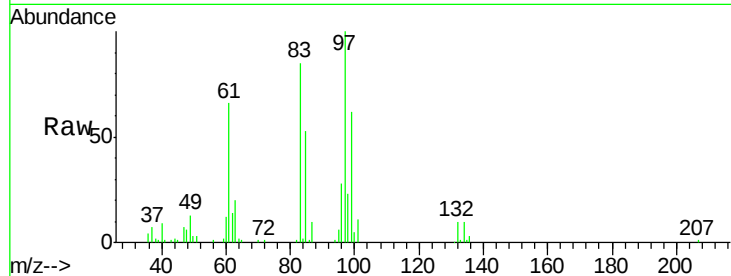
#55
 1,1,2-Trichloroethane
 Concen: 21.580 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. 0.00 min
 Lab File: VD064811.D
 Acq: 09 Jan 2020 12:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0109SBS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	84.1	70.2	105.4
85	53.3	44.0	66.0
99	62.0	47.8	71.6

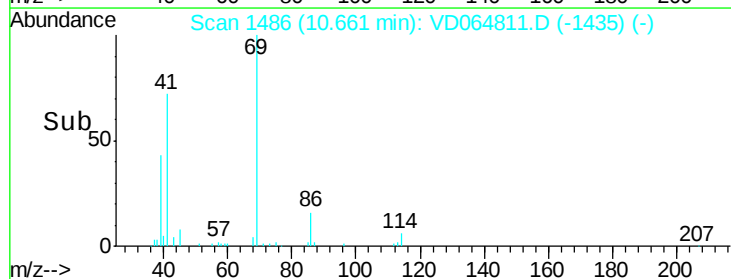
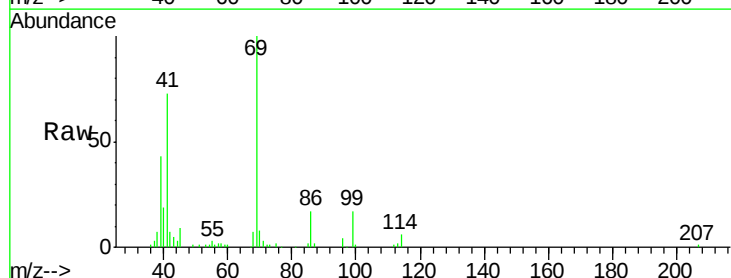
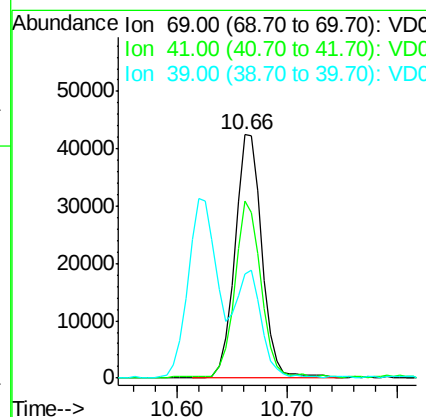
Manual Integrations
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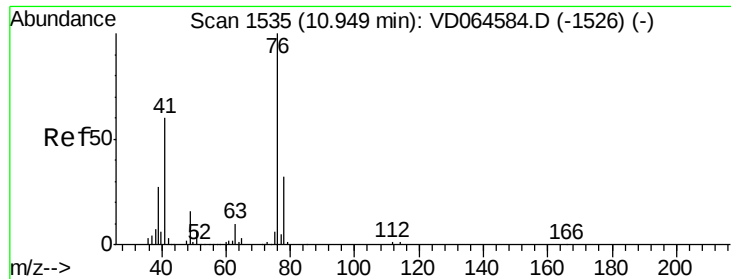
MMDadoda
 1/10/2020 10:42:06 AM



#56
 Ethyl methacrylate
 Concen: 21.373 ug/l
 RT: 10.66 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VD064811.D
 Acq: 09 Jan 2020 12:28

Tgt Ion	Ratio	Lower	Upper
69	100		
41	71.3	55.3	82.9
39	38.5	33.8	50.8





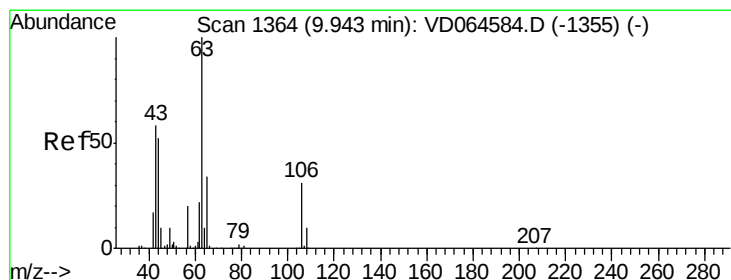
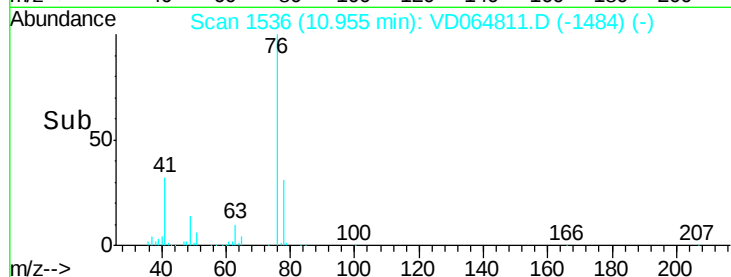
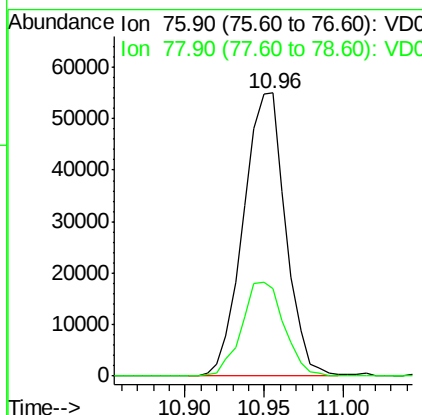
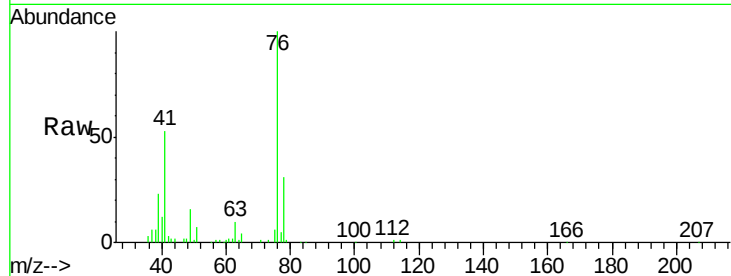
#57
 1,3-Dichloropropane
 Concen: 21.661 ug/l
 RT: 10.96 min Scan# 1536
 Delta R.T. 0.01 min
 Lab File: VD064811.D
 Acq: 09 Jan 2020 12:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0109SBS01

Tot Ion: 76 Resp: 101706
 Ion Ratio Lower Upper
 76 100
 78 33.6 26.2 39.4

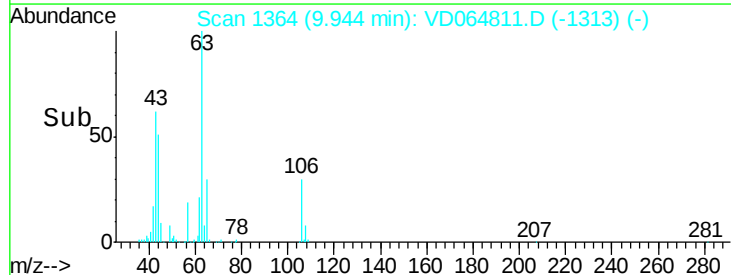
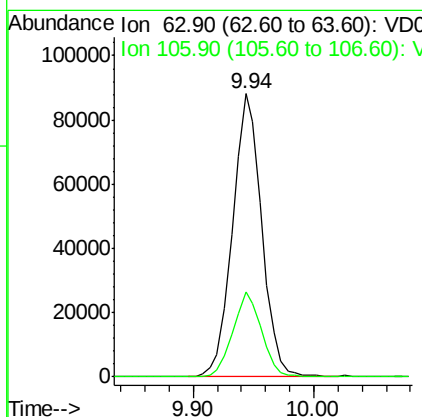
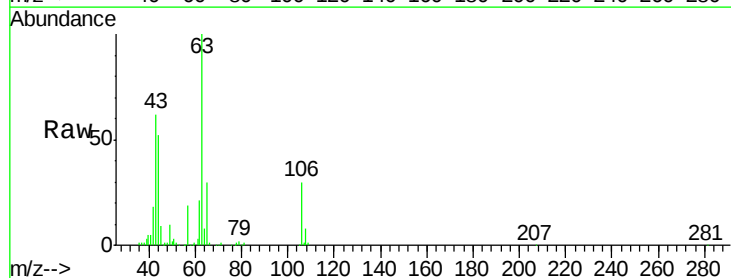
Manual Integrations
 APPROVED

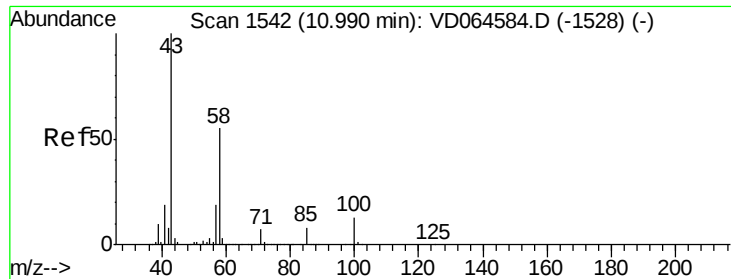
MMDadoda
 1/10/2020 10:42:06 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 114.082 ug/l
 RT: 9.94 min Scan# 1364
 Delta R.T. 0.00 min
 Lab File: VD064811.D
 Acq: 09 Jan 2020 12:28

Tgt Ion: 63 Resp: 148028
 Ion Ratio Lower Upper
 63 100
 106 29.4 23.8 35.8





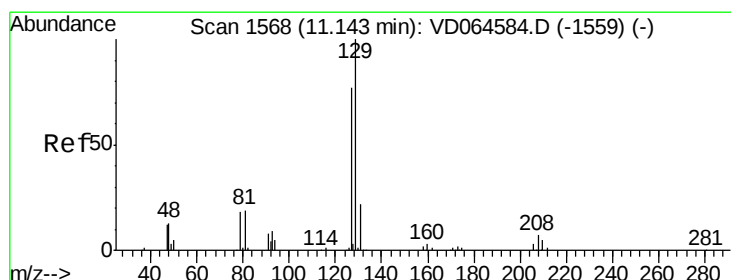
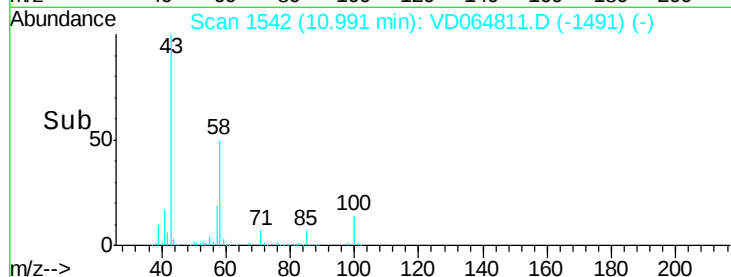
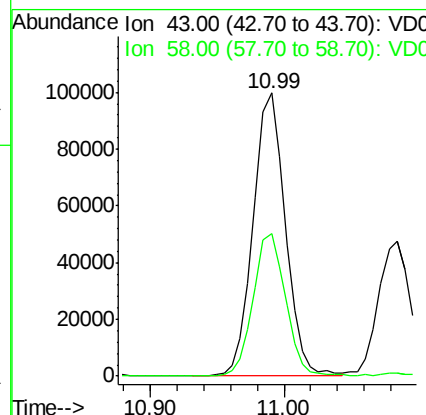
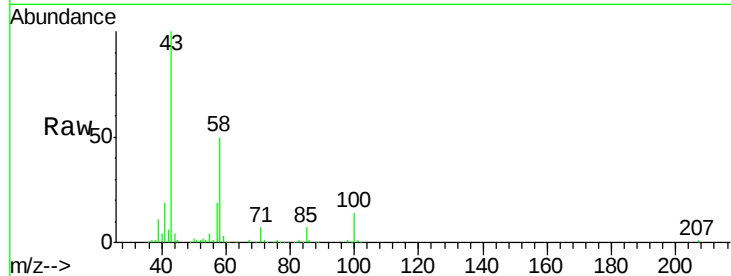
#59
2-Hexanone
Concen: 113.989 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD0109SBSD01

Tot Ion: 43 Resp: 166503
Ion Ratio Lower Upper
43 100
58 50.6 26.4 79.0

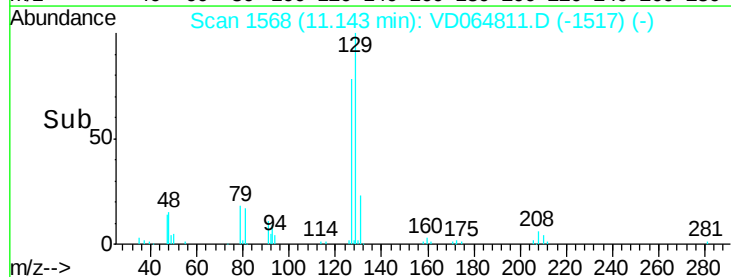
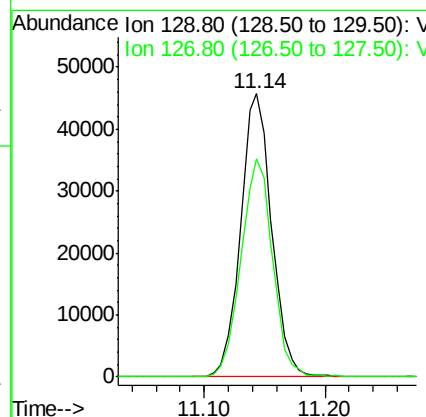
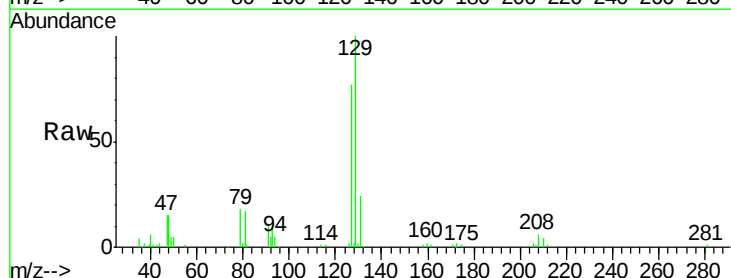
Manual Integrations
APPROVED

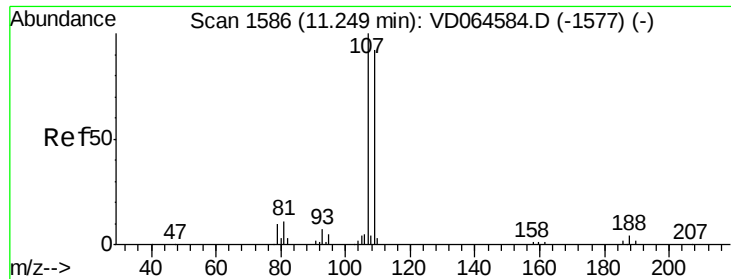
MMDadoda
1/10/2020 10:42:06 AM



#60
Dibromochloromethane
Concen: 21.698 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Tgt Ion: 129 Resp: 81826
Ion Ratio Lower Upper
129 100
127 78.7 38.4 115.2





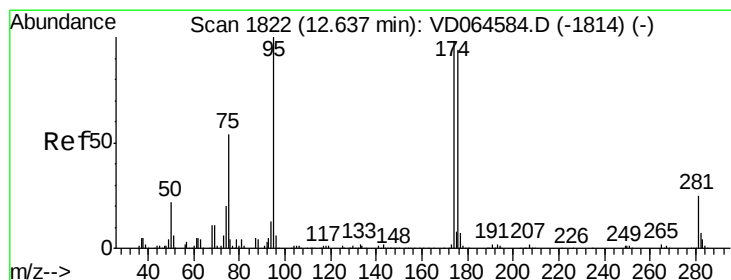
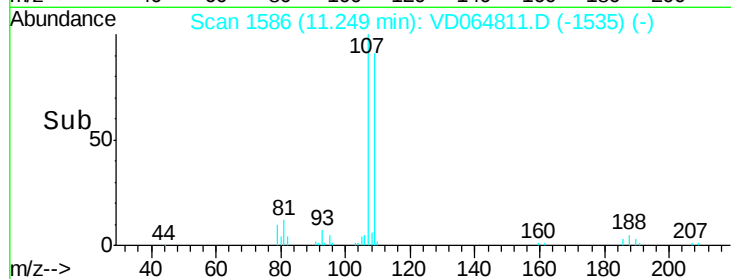
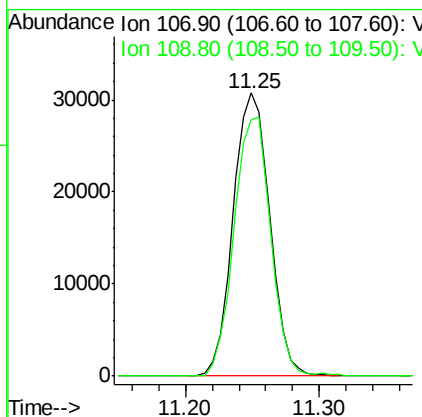
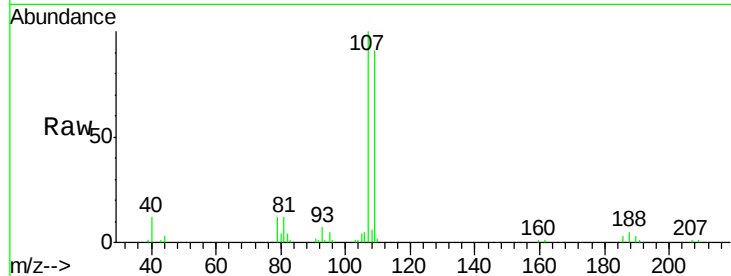
#61
 1,2-Dibromoethane
 Concen: 21.707 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. 0.00 min
 Lab File: VD064811.D
 Acq: 09 Jan 2020 12:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0109SBS01

Tot Ion: 107 Resp: 58387
 Ion Ratio Lower Upper
 107 100
 109 91.8 75.6 113.4

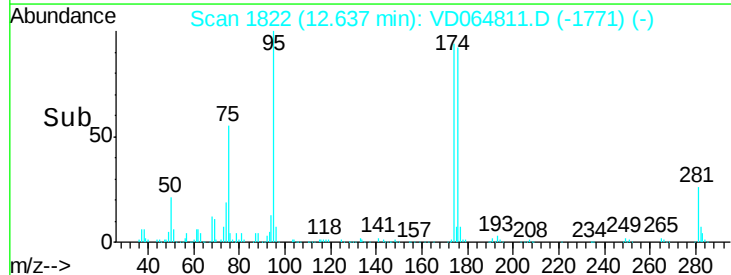
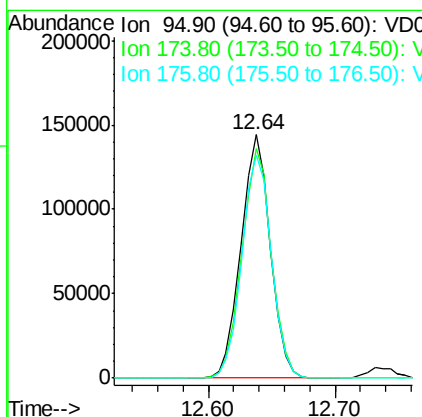
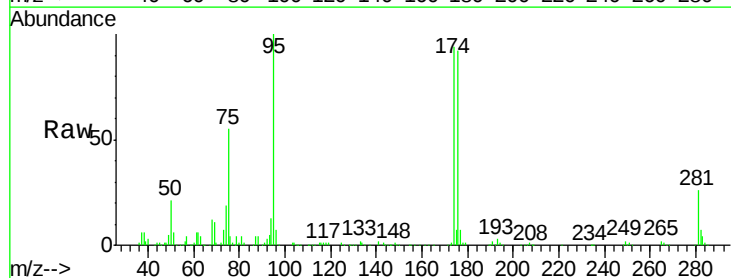
Manual Integrations
 APPROVED

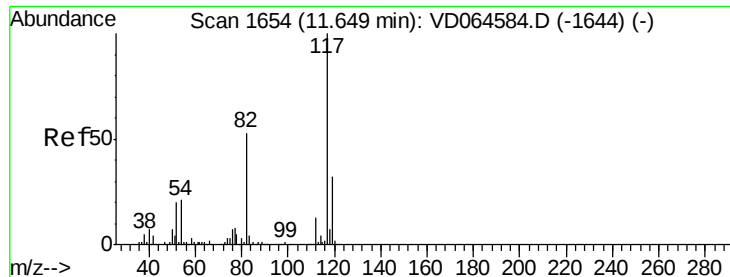
MMDadoda
 1/10/2020 10:42:06 AM



#62
 4-Bromofluorobenzene
 Concen: 53.671 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.00 min
 Lab File: VD064811.D
 Acq: 09 Jan 2020 12:28

Tgt Ion: 95 Resp: 230705
 Ion Ratio Lower Upper
 95 100
 174 94.8 0.0 193.2
 176 92.4 0.0 184.2





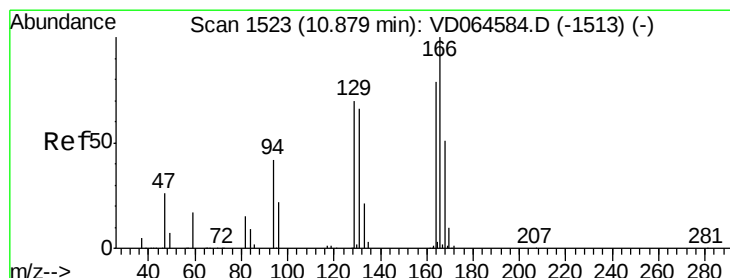
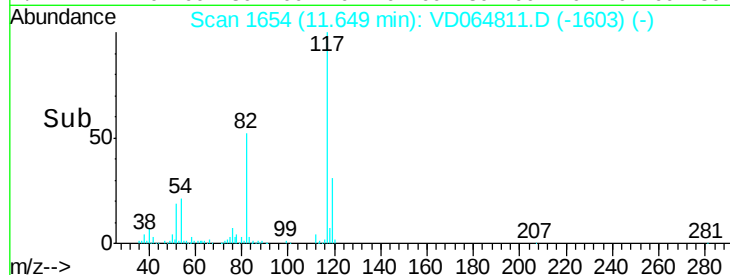
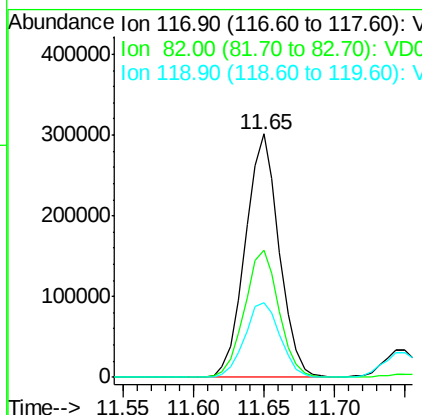
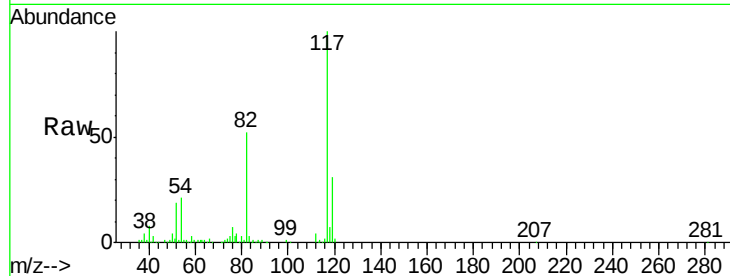
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD0109SBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.3	42.2	63.4
119	30.8	26.0	39.0

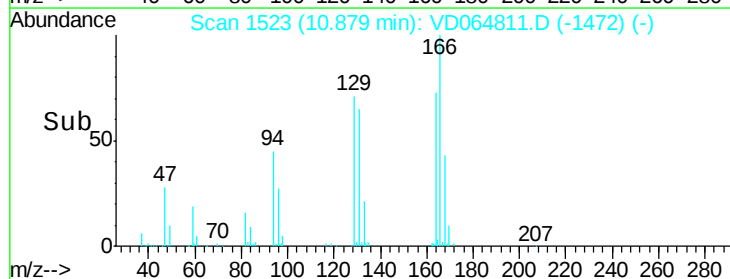
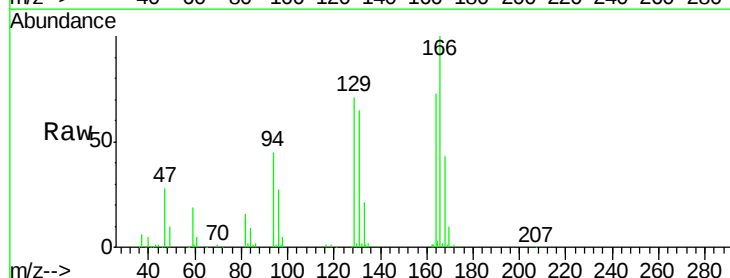
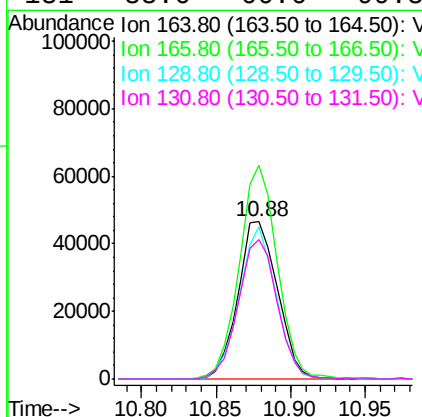
Manual Integrations
APPROVED

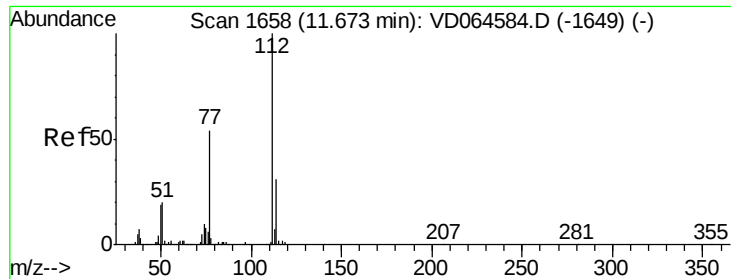
MMDadoda
1/10/2020 10:42:06 AM



#64
Tetrachloroethene
Concen: 21.978 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Tgt Ion	Ratio	Lower	Upper
164	100		
166	136.1	101.3	151.9
129	97.0	70.5	105.7
131	88.6	66.6	99.8





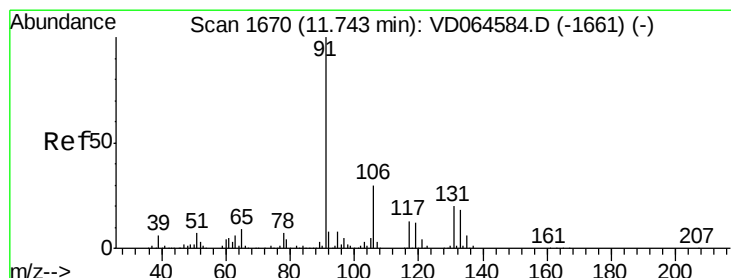
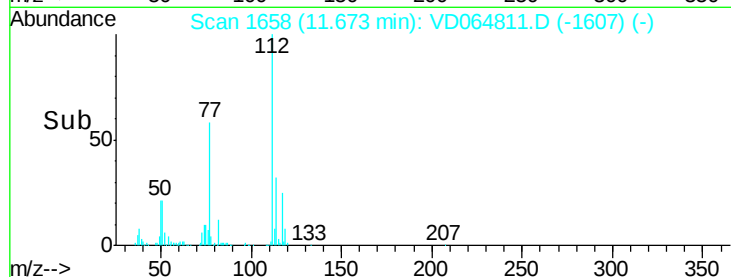
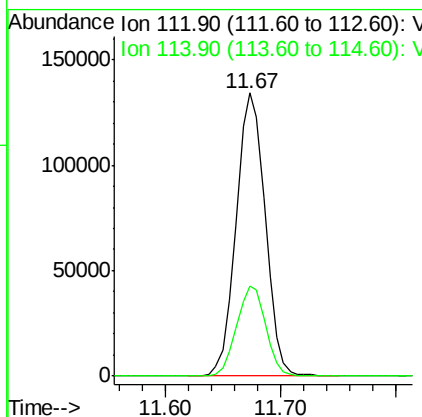
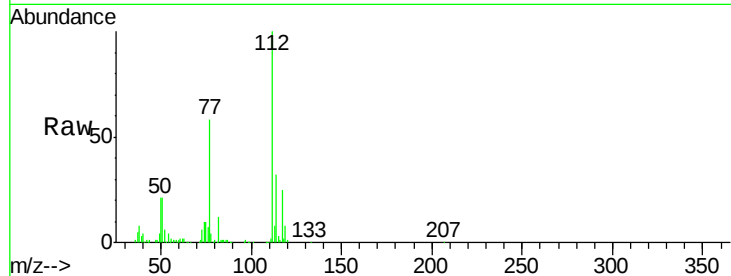
#65
Chlorobenzene
Concen: 22.223 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. 0.00 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD0109SBSD01

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.9	24.8	37.2

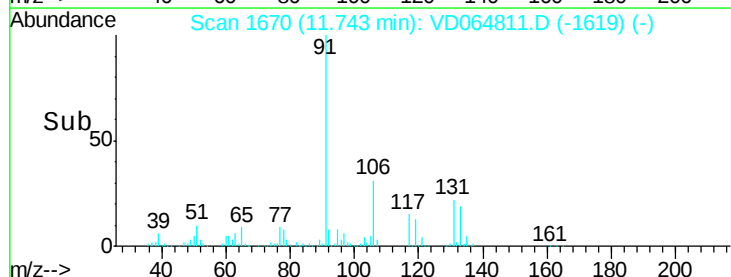
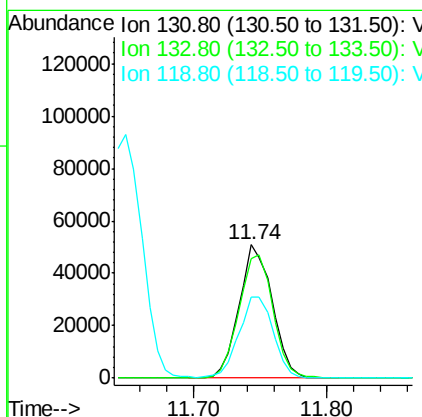
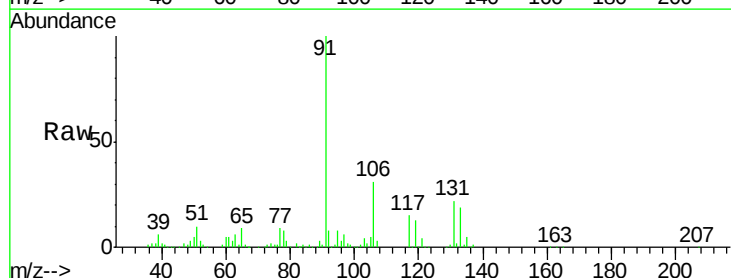
Manual Integrations
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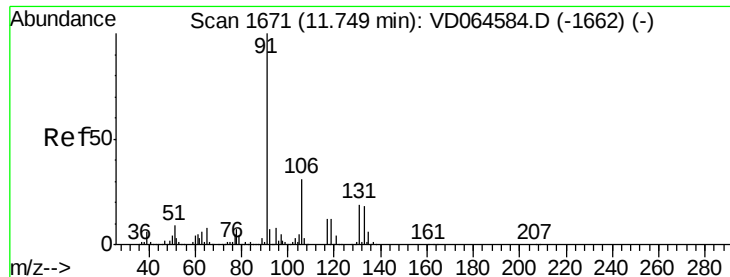
MMDadoda
1/10/2020 10:42:06 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 22.130 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. 0.00 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.1	48.3	144.8
119	63.3	32.1	96.3





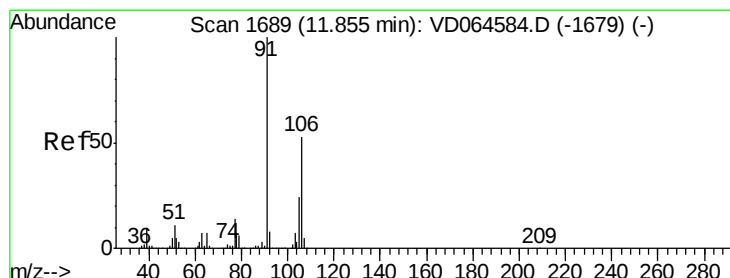
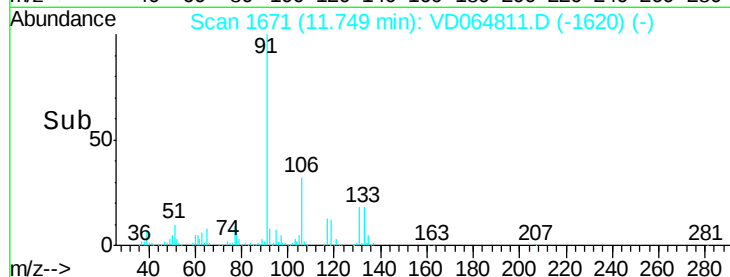
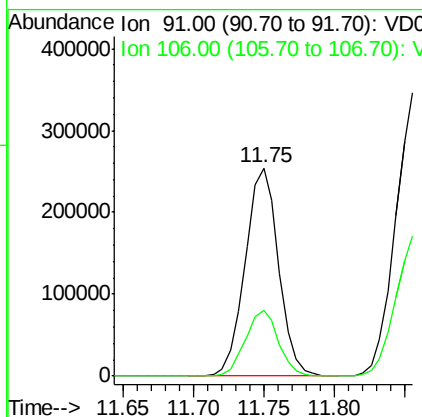
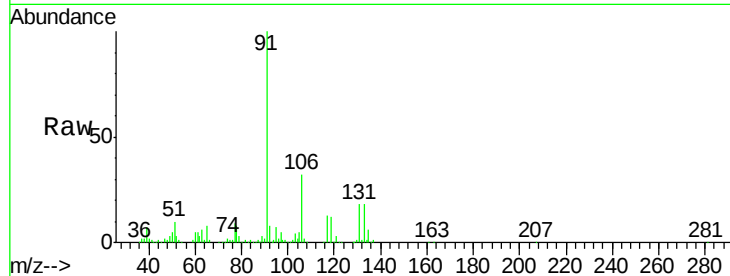
#67
Ethyl Benzene
Concen: 22.099 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD0109SBSD01

Tot Ion: 91 Resp: 421453
Ion Ratio Lower Upper
91 100
106 31.5 24.6 36.8

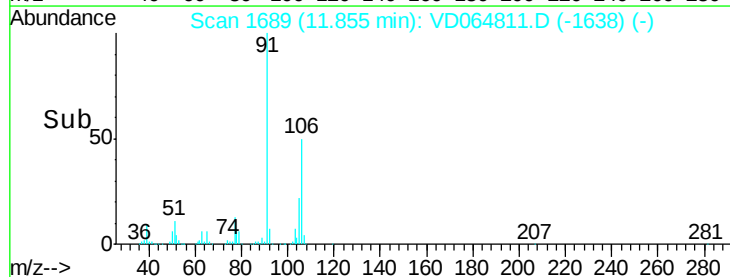
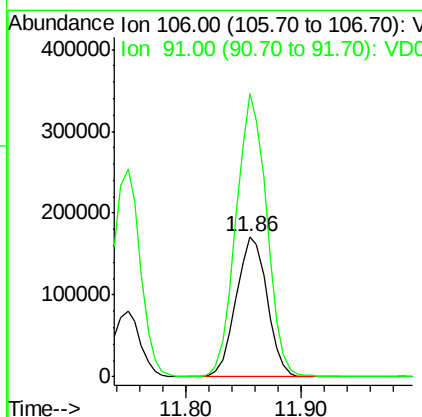
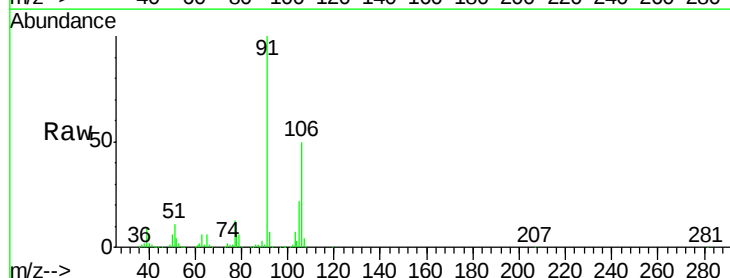
Manual Integrations
APPROVED

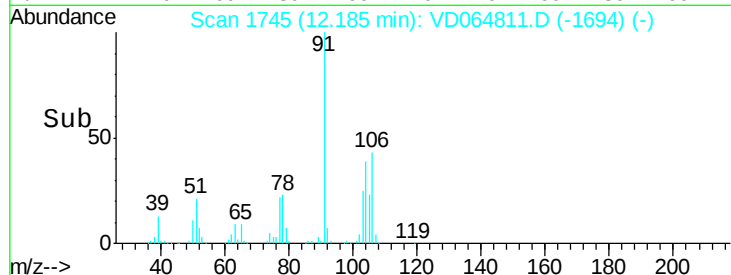
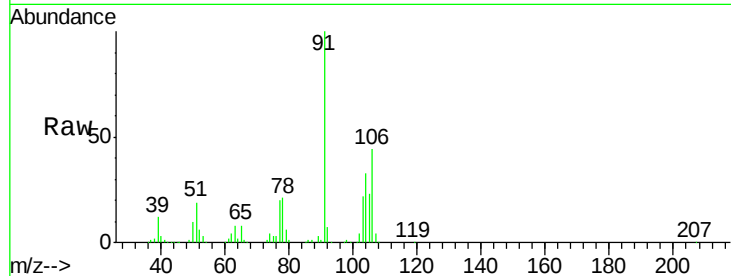
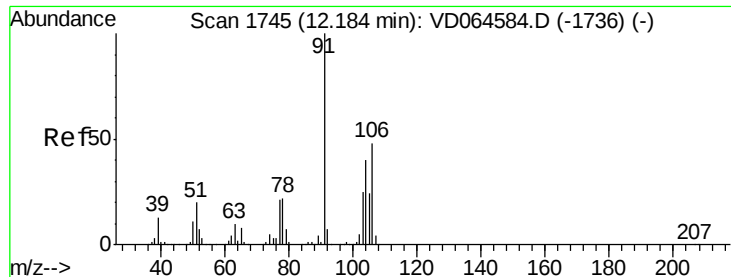
MMDadoda
1/10/2020 10:42:06 AM



#68
m/p-Xylenes
Concen: 43.524 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Tgt Ion: 106 Resp: 320385
Ion Ratio Lower Upper
106 100
91 199.7 156.3 234.5





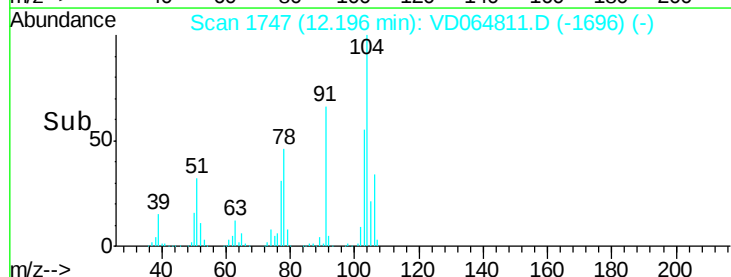
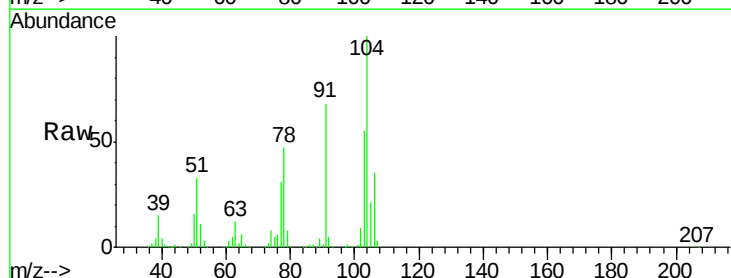
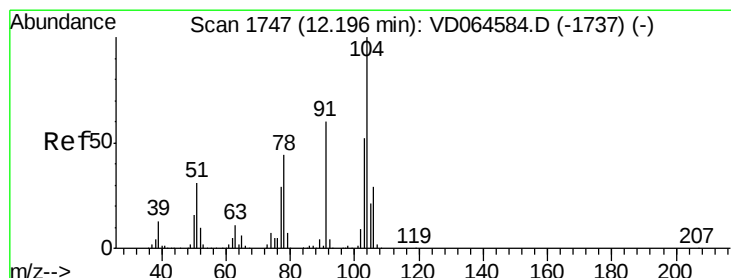
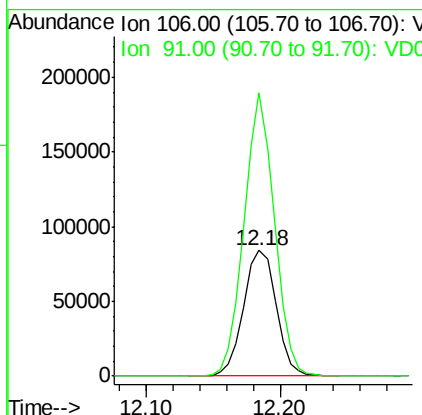
#69
o-Xylene
Concen: 21.386 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Tot Ion	Ratio	Resp	Lower	Upper
106	100	142195		
91	208.6	104.8	314.4	

Instrument :
MSVOA_D
ClientSampleId :
VD0109SBS01

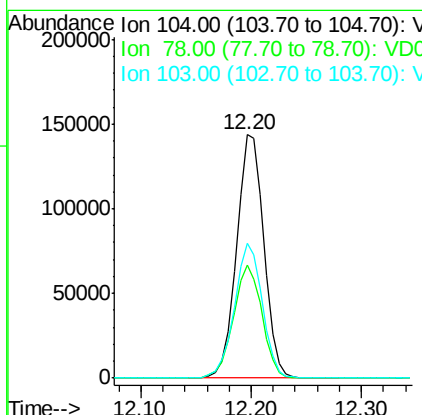
Manual Integrations
APPROVED

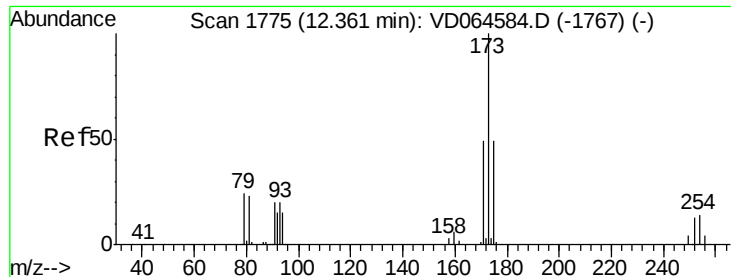
MMDadoda
1/10/2020 10:42:06 AM



#70
Styrene
Concen: 21.415 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. 0.00 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	249932		
78	48.7	38.2	57.2	
103	56.6	44.6	67.0	





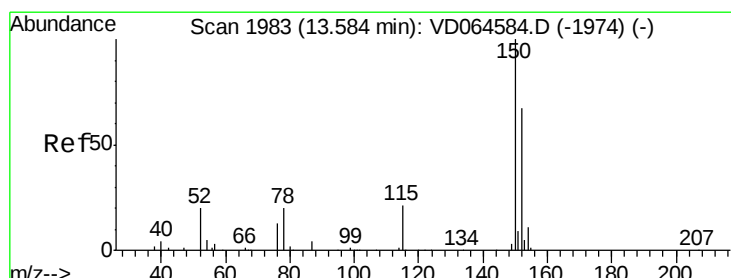
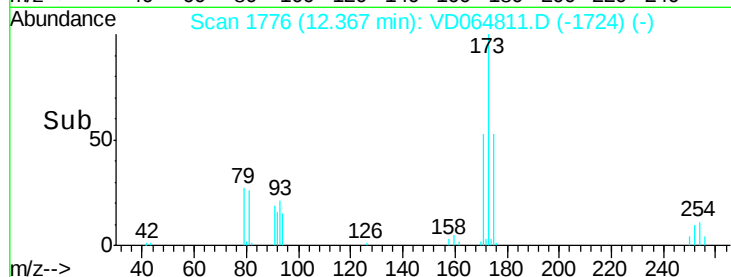
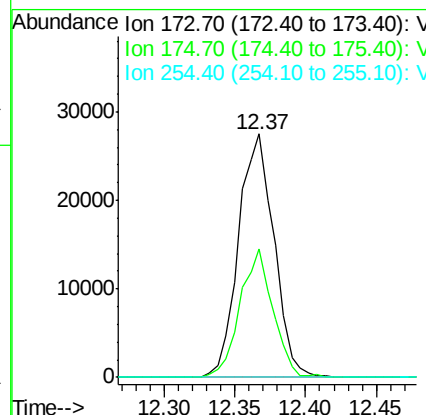
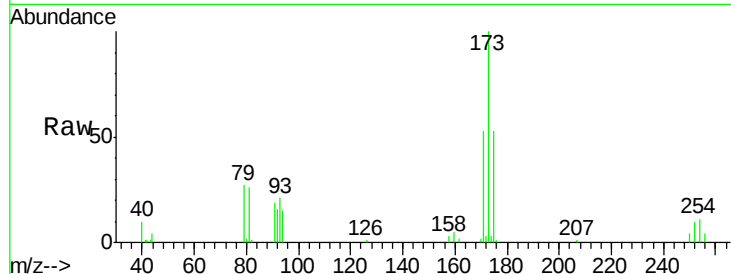
#71
Bromoform
Concen: 21.373 ug/l
RT: 12.37 min Scan# 1776
Delta R.T. 0.01 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD0109SBSD01

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.1	24.6	73.8
254	0.0	0.1	0.1#

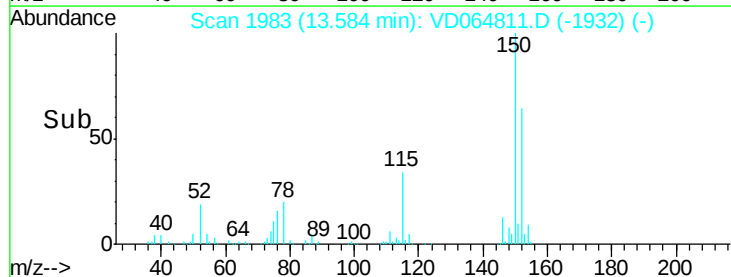
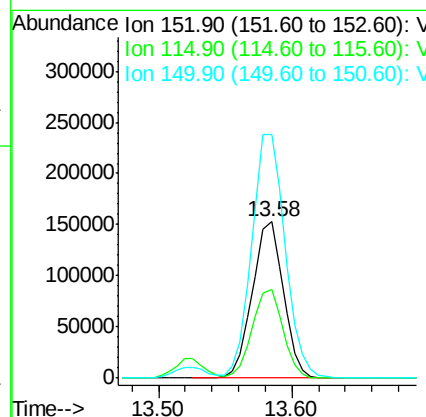
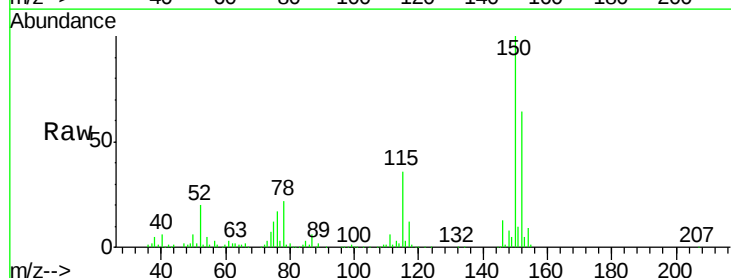
Manual Integrations
APPROVED

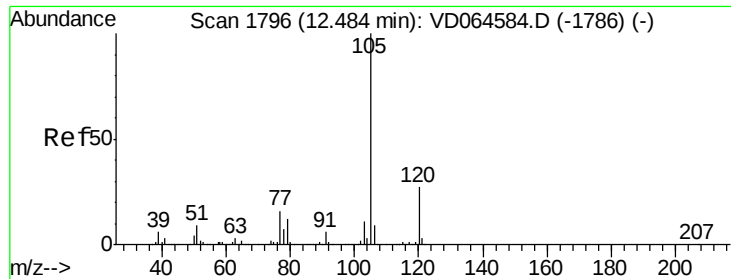
MMDadoda
1/10/2020 10:42:06 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.7	27.8	83.4
150	167.2	0.0	351.4





#73

Isopropylbenzene

Concen: 22.940 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD0109SBS01

Tot Ion: 105 Resp: 403251

Ion Ratio Lower Upper

105 100

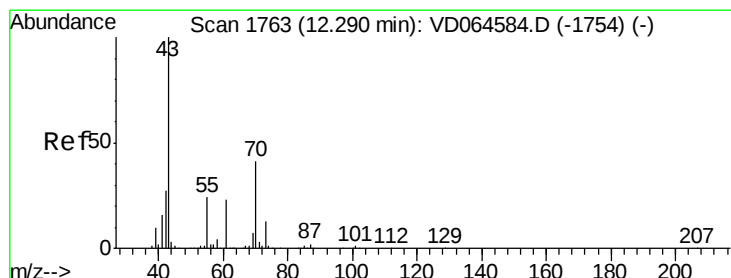
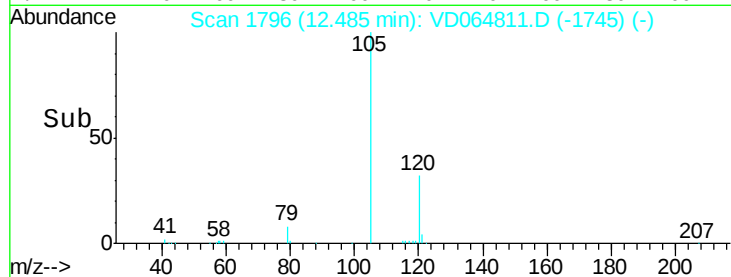
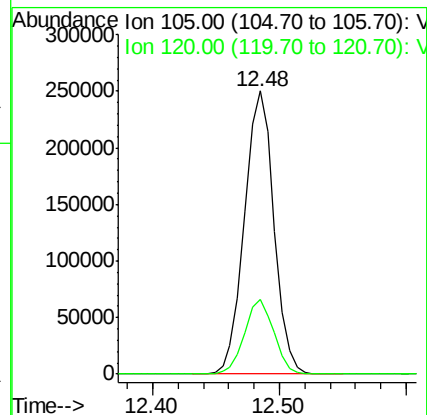
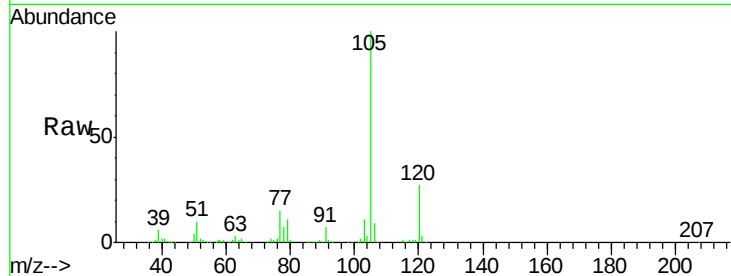
120 26.2 13.5 40.5

Manual Integrations

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MMDadoda

1/10/2020 10:42:06 AM



#74

N-ethyl acetate

Concen: 22.256 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. 0.01 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

Tgt Ion: 43 Resp: 83629

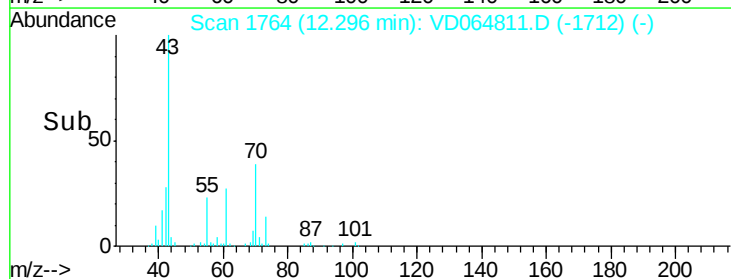
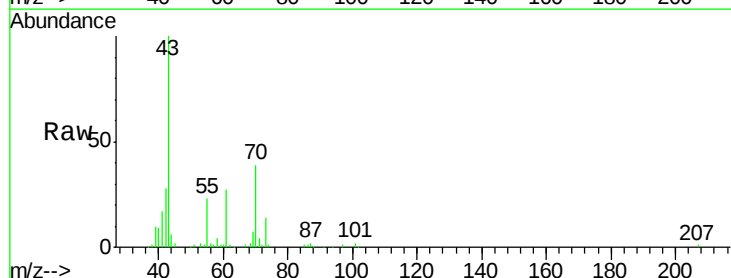
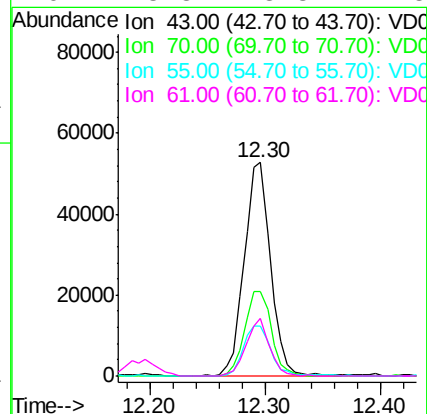
Ion Ratio Lower Upper

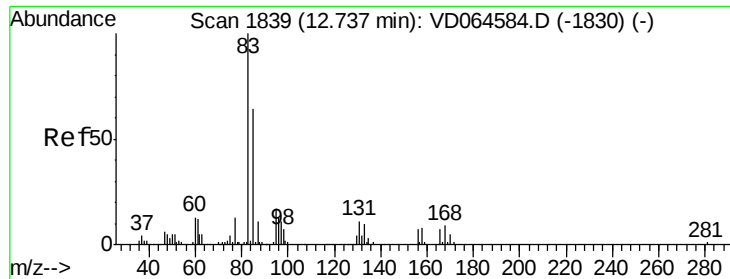
43 100

70 39.9 33.4 50.0

55 24.4 19.4 29.0

61 23.8 18.3 27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 22.835 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

Instrument :

MSVOA_D

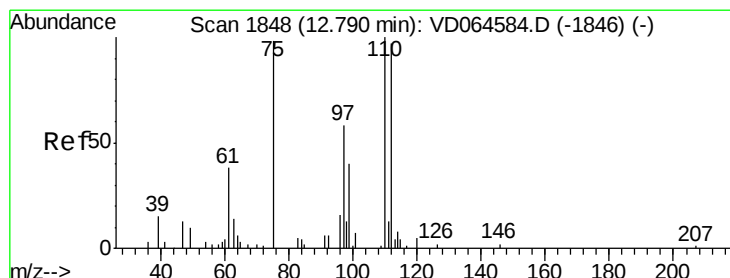
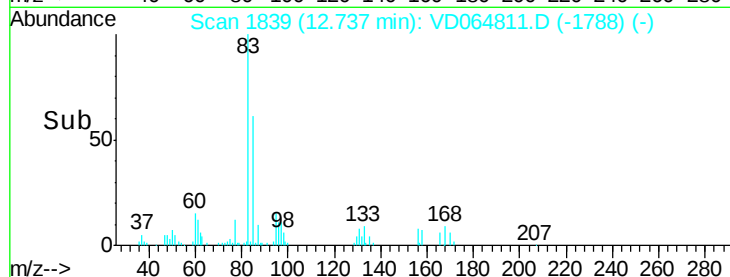
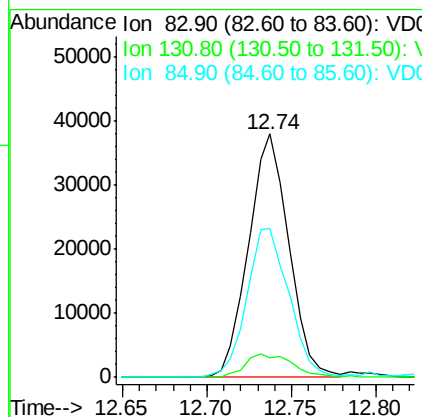
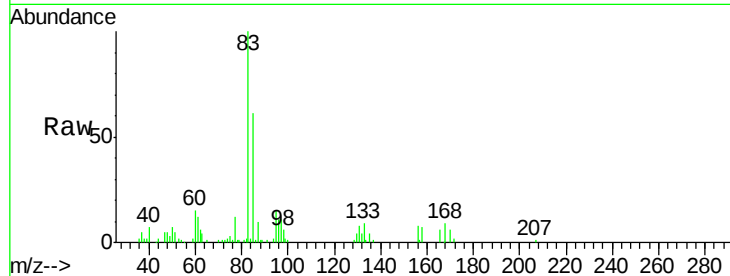
ClientSampleId :

VD0109SBS01

Tot Ion:	83	Resp:	63056
Ion Ratio	Lower	Upper	
83	100		
131	11.3	5.8	17.4
85	64.1	32.3	96.9

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#76

1,2,3-Trichloropropane

Concen: 24.489 ug/l m

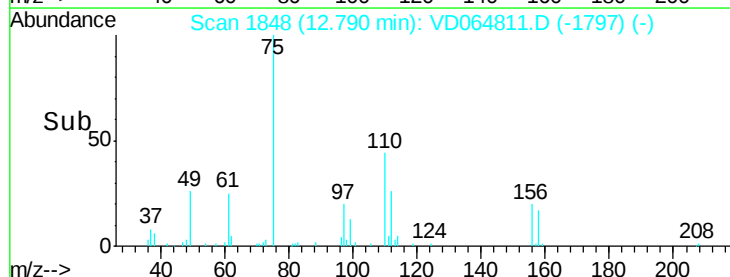
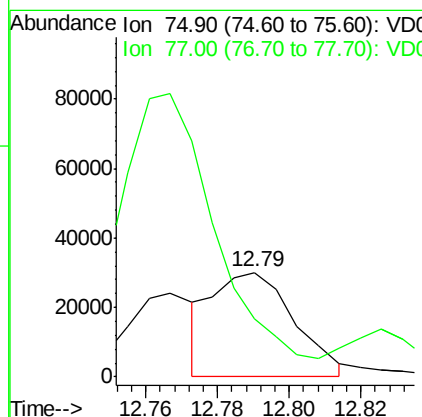
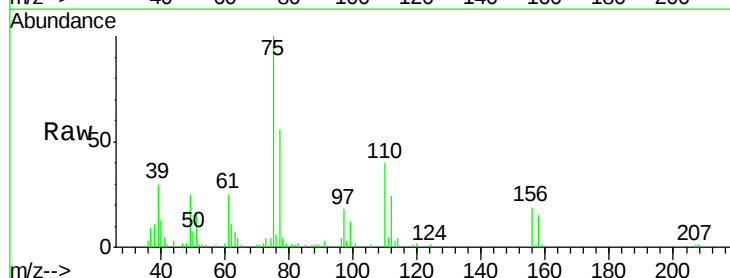
RT: 12.79 min Scan# 1848

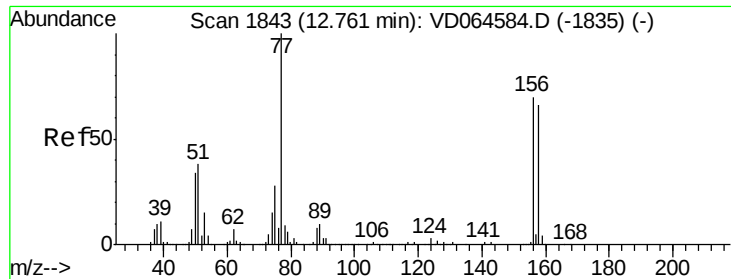
Delta R.T. 0.00 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

Tgt Ion:	75	Resp:	47569
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 22.289 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.01 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

Instrument :

MSVOA_D

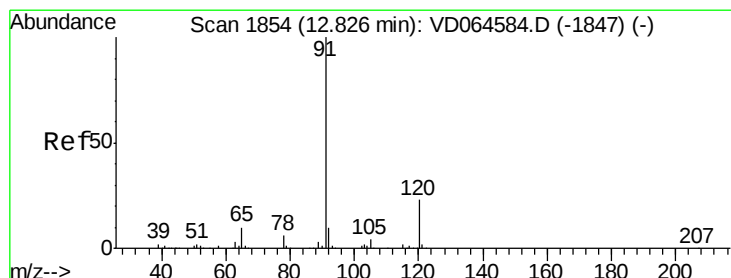
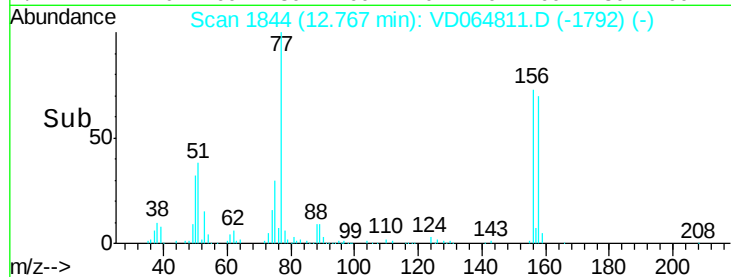
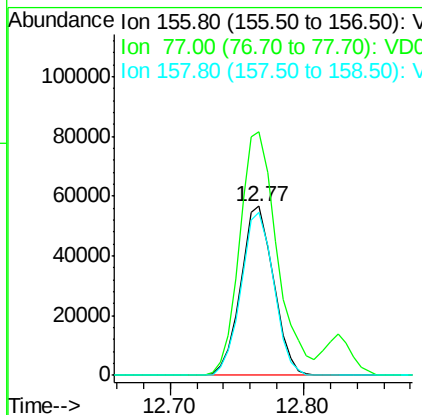
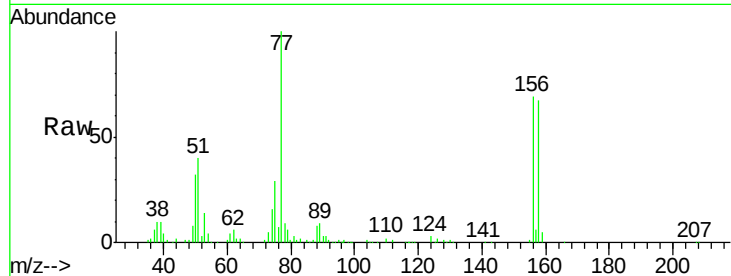
ClientSampleId :

VD0109SBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100				
77	165.1	80.9	242.7		
158	95.5	48.0	144.2		

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#78

n-propylbenzene

Concen: 23.166 ug/l

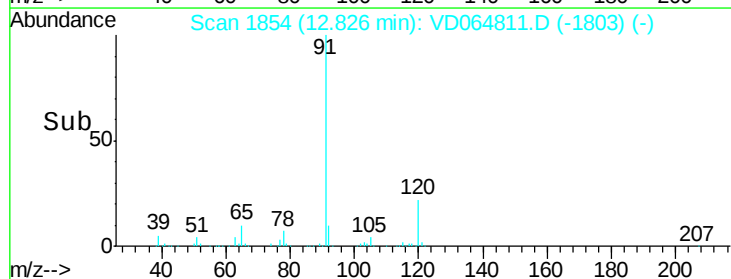
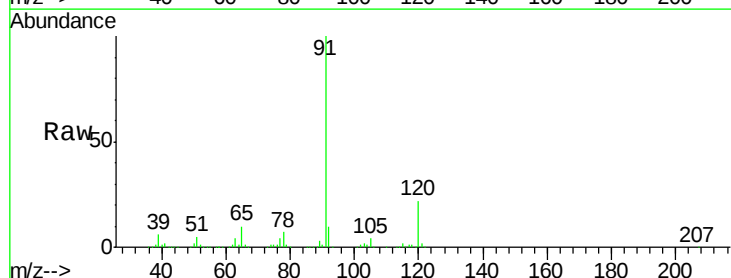
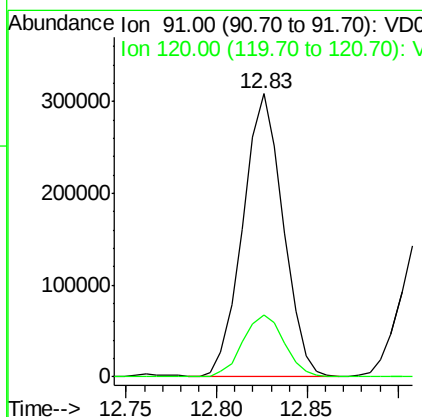
RT: 12.83 min Scan# 1854

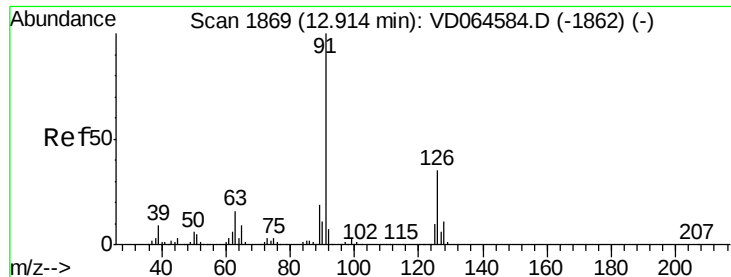
Delta R.T. 0.00 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100				
120	22.7	11.9	35.9		





#79

2-Chlorotoluene

Concen: 22.457 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. 0.00 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD0109SBS01

Tot Ion: 91 Resp: 252997

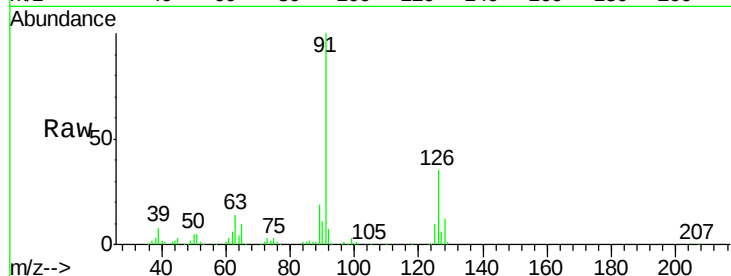
Ion Ratio Lower Upper

91 100

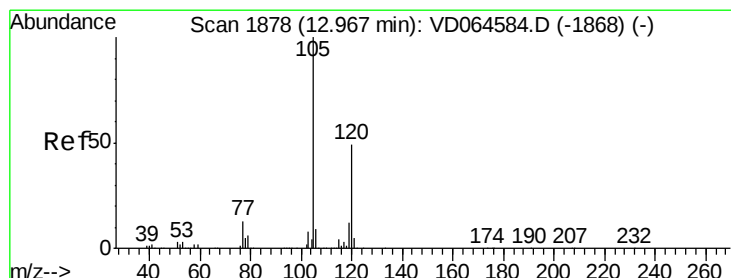
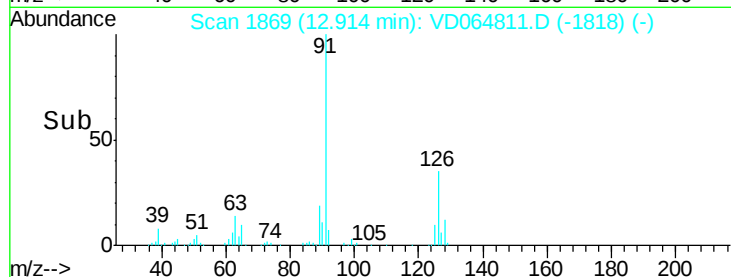
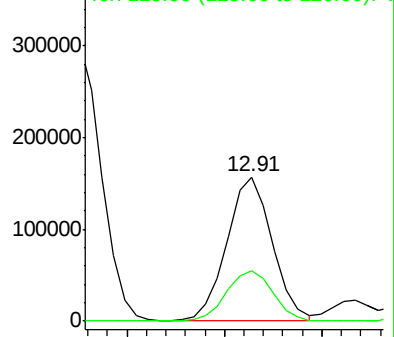
126 35.8 17.8 53.5

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Abundance Ion 91.00 (90.70 to 91.70): VD064811.D (-1818) (-)



#80

1,3,5-Trimethylbenzene

Concen: 22.535 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD064811.D

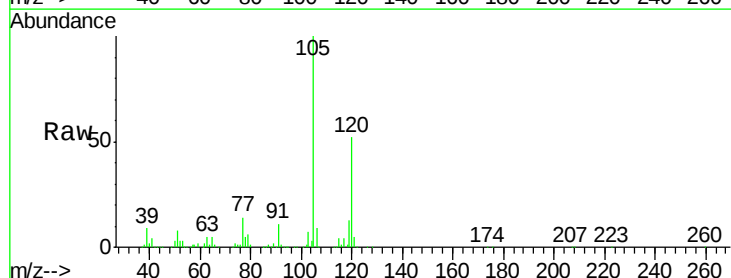
Acq: 09 Jan 2020 12:28

Tgt Ion: 105 Resp: 325405

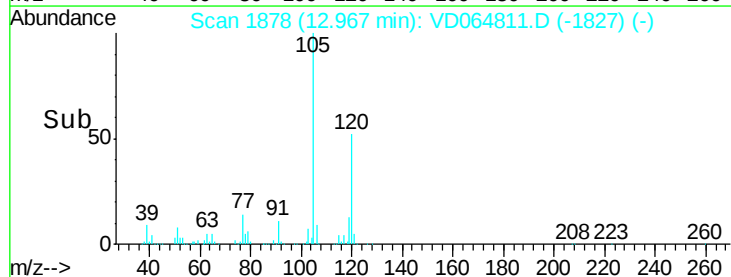
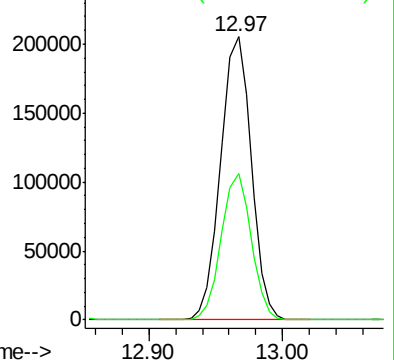
Ion Ratio Lower Upper

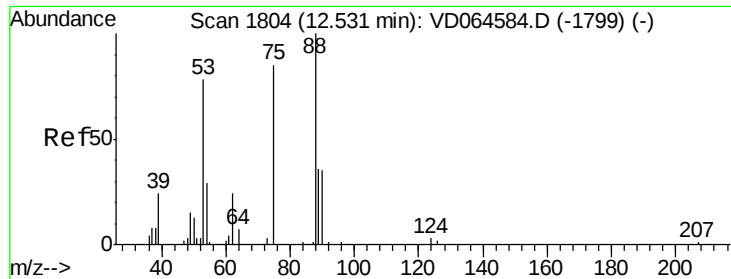
105 100

120 50.7 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): VD064811.D (-1827) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 23.503 ug/l

RT: 12.53 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD0109SBS01

Tot Ion: 75 Resp: 21828

Ion Ratio Lower Upper

75 100

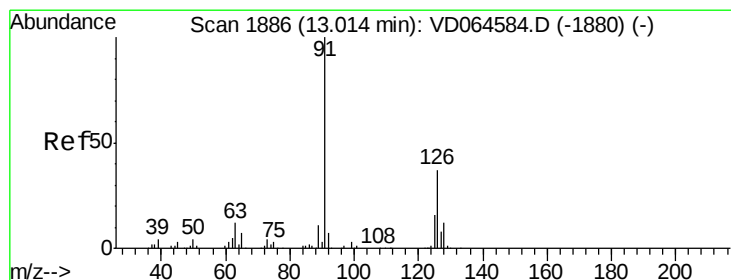
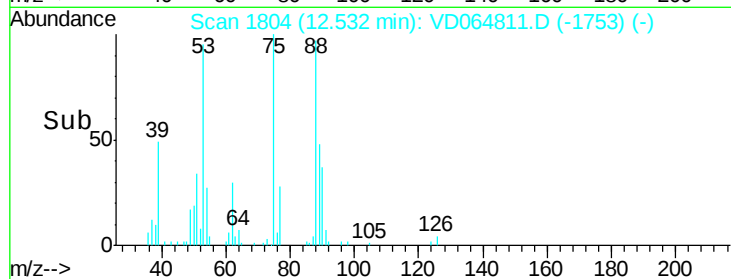
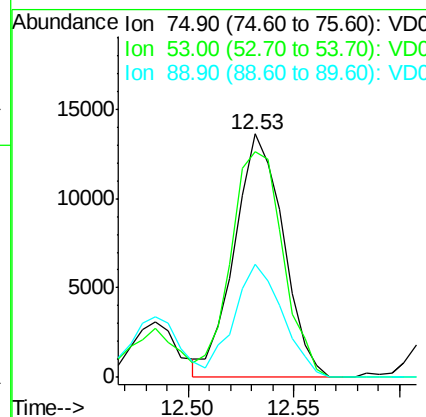
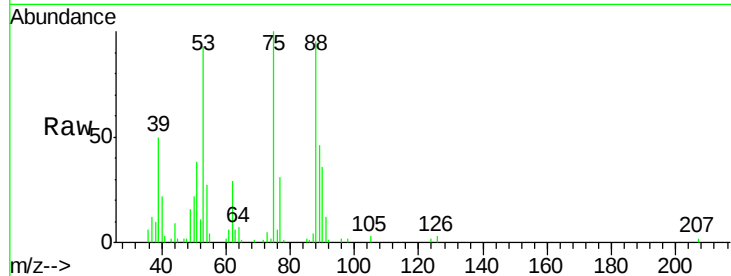
53 99.2 78.8 118.2

89 46.1 38.3 57.5

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#82

4-Chlorotoluene

Concen: 22.698 ug/l

RT: 13.01 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VD064811.D

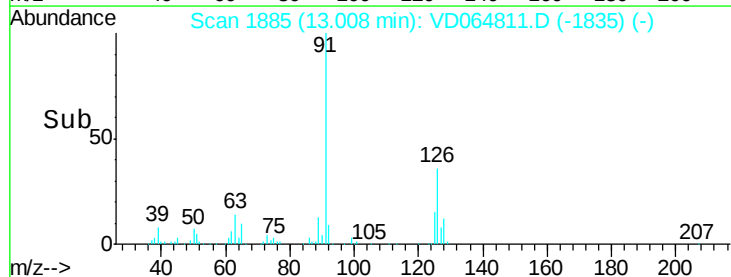
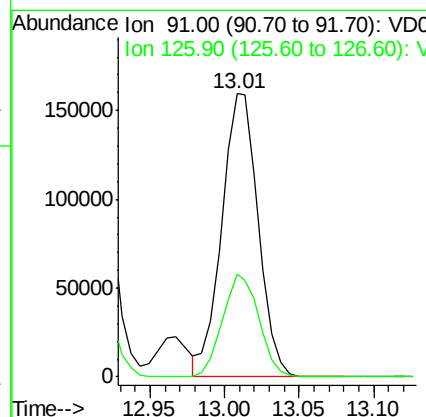
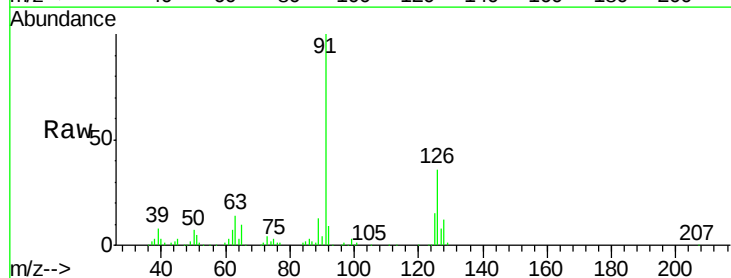
Acq: 09 Jan 2020 12:28

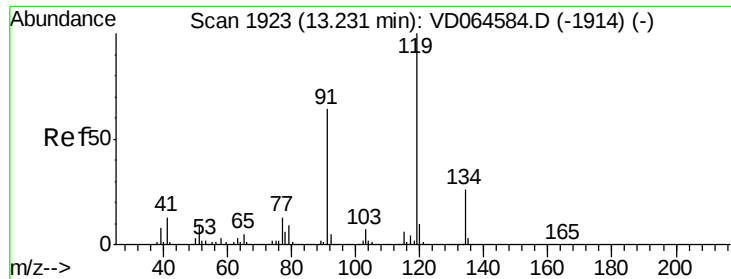
Tgt Ion: 91 Resp: 272118

Ion Ratio Lower Upper

91 100

126 36.0 17.8 53.5





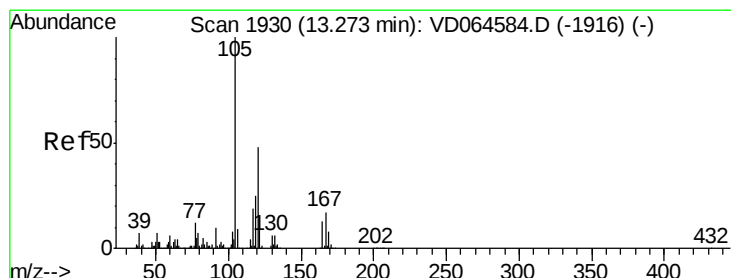
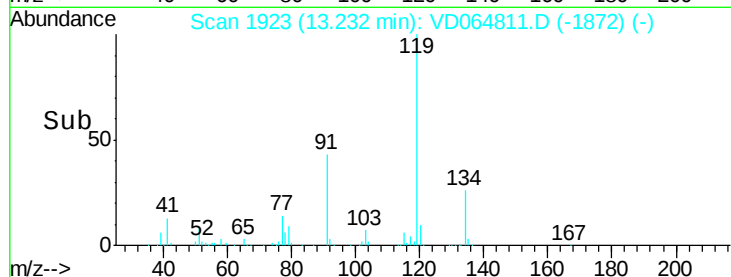
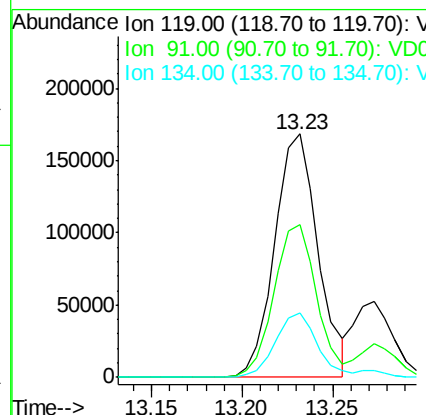
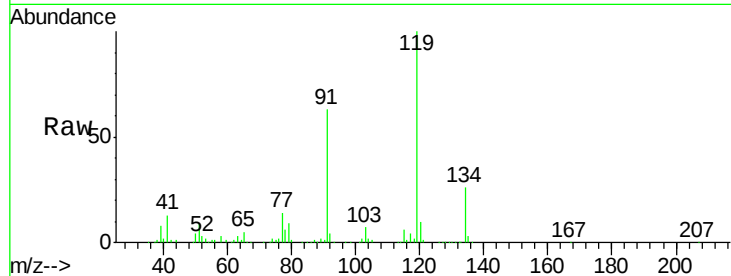
#83
tert-Butylbenzene
Concen: 22.446 ug/l
RT: 13.23 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD0109SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	281419		
91	61.7		30.8	92.4
134	25.6		12.8	38.3

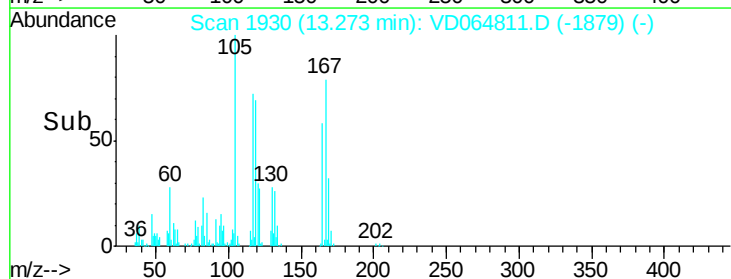
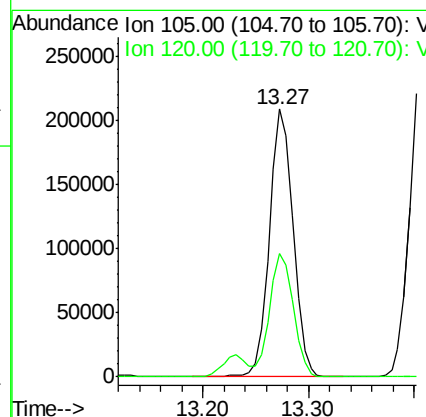
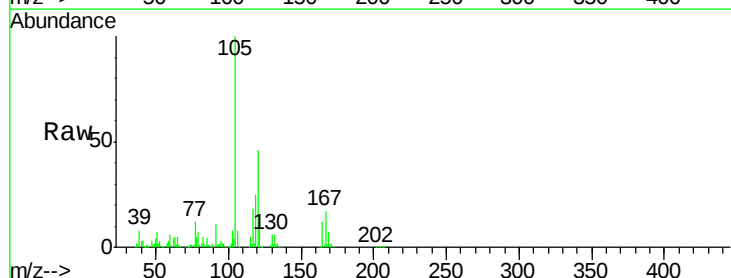
Manual Integrations
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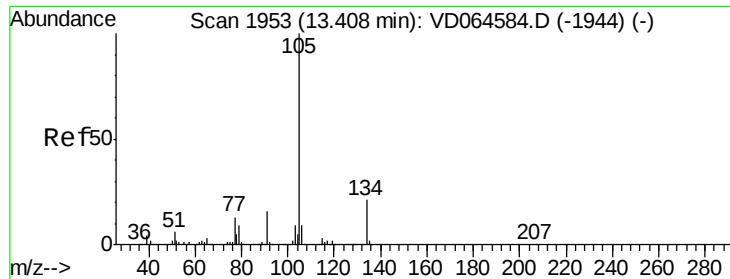
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#84
1,2,4-Trimethylbenzene
Concen: 22.627 ug/l
RT: 13.27 min Scan# 1930
Delta R.T. 0.00 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	325398		
120	46.6		23.8	71.2





#85

sec-Butylbenzene

Concen: 22.689 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

Instrument :

MSVOA_D

ClientSampleId :

VD0109SBS01

Tot Ion:105 Resp: 389988

Ion Ratio Lower Upper

105 100

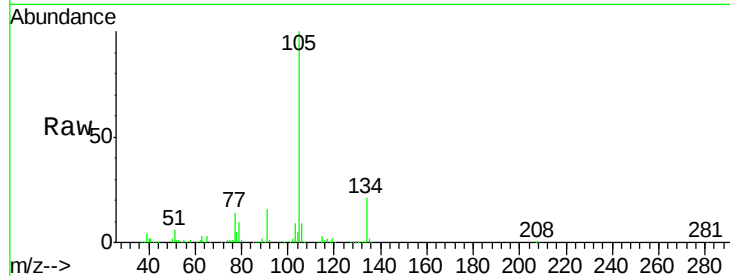
134 20.6 10.6 31.8

Manual Integrations

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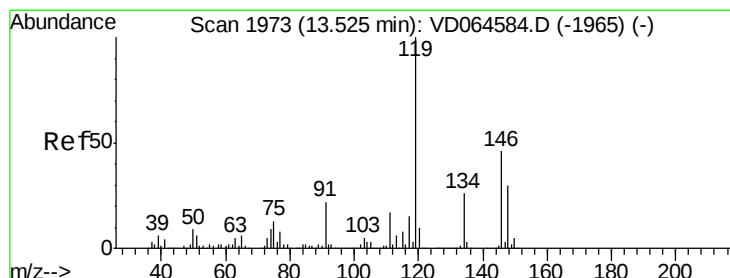
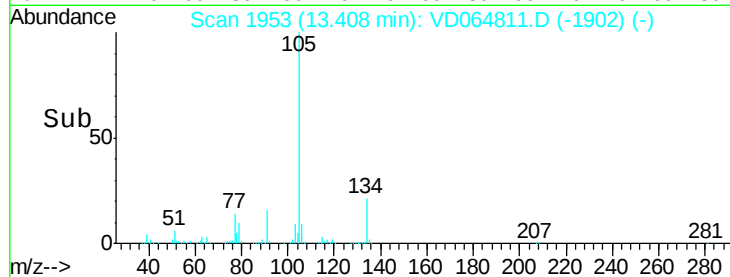
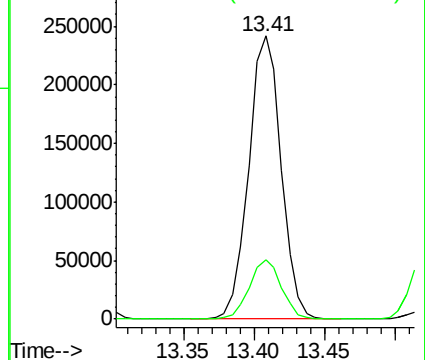
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 21.879 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD064811.D

Acq: 09 Jan 2020 12:28

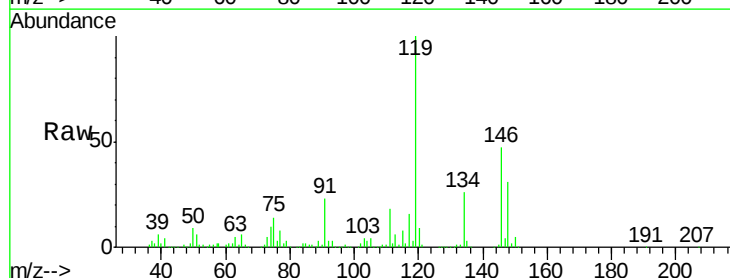
Tgt Ion:119 Resp: 359583

Ion Ratio Lower Upper

119 100

134 26.0 13.4 40.1

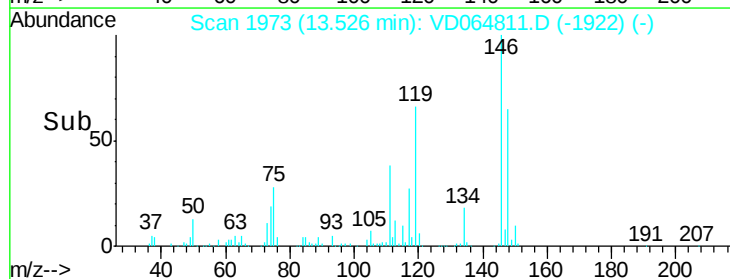
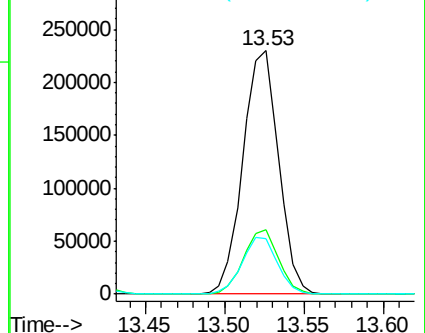
91 23.3 11.2 33.6

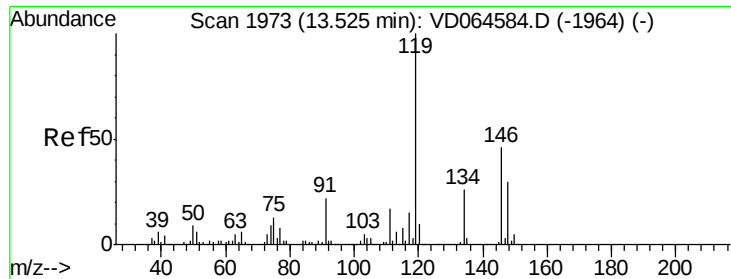


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





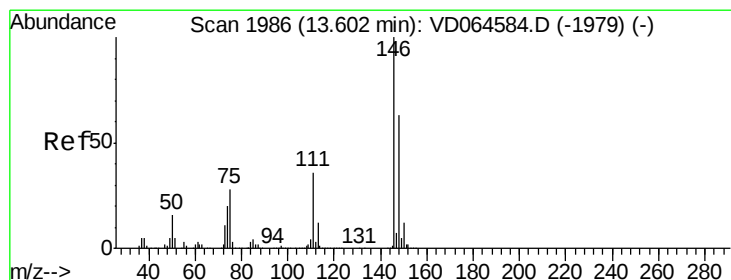
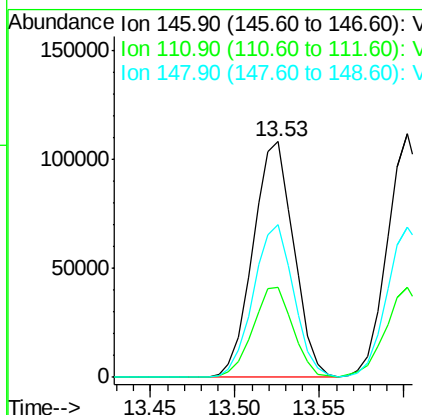
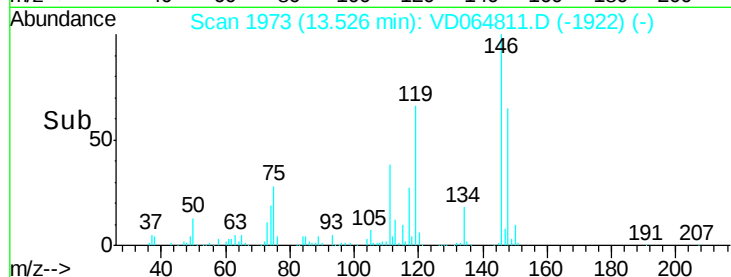
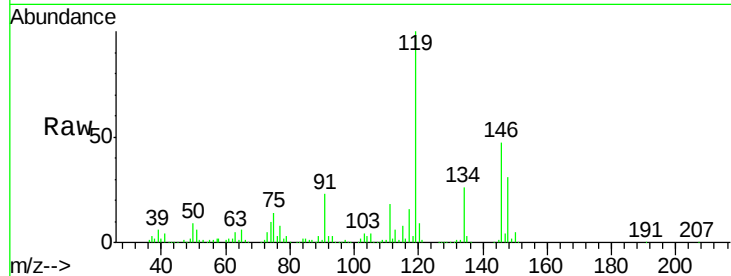
#87
 1,3-Dichlorobenzene
 Concen: 22.060 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: VD064811.D
 Acq: 09 Jan 2020 12:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0109SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.7	18.8	56.4
148	64.0	32.5	97.5

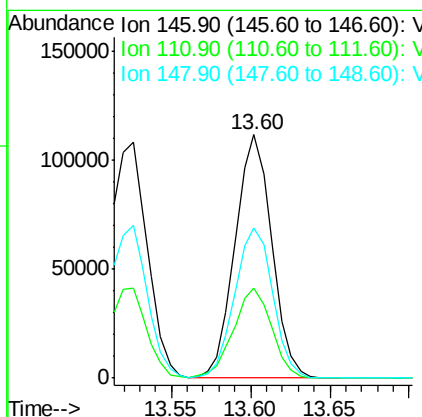
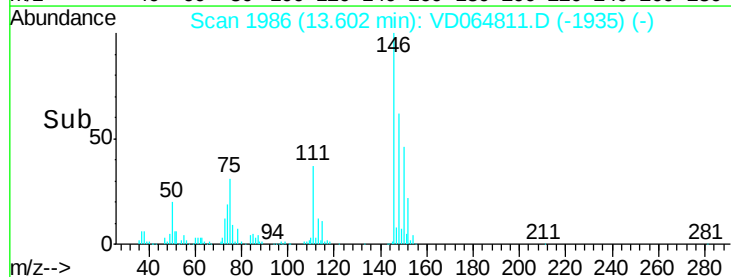
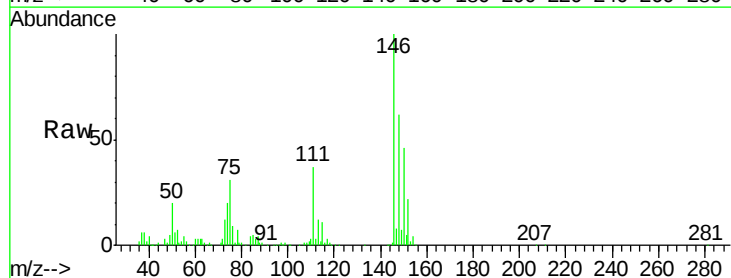
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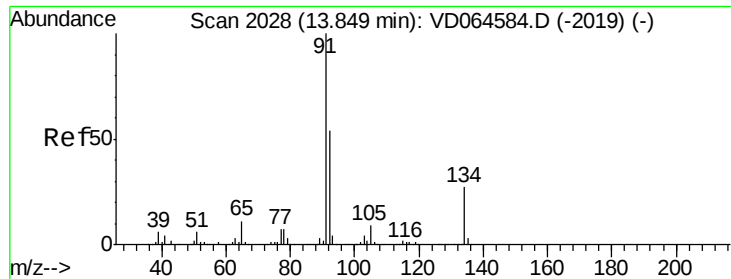
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#88
 1,4-Dichlorobenzene
 Concen: 22.210 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. 0.00 min
 Lab File: VD064811.D
 Acq: 09 Jan 2020 12:28

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.7	18.1	54.1
148	63.9	32.3	96.9





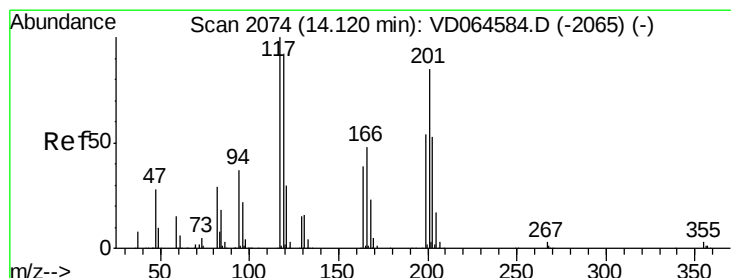
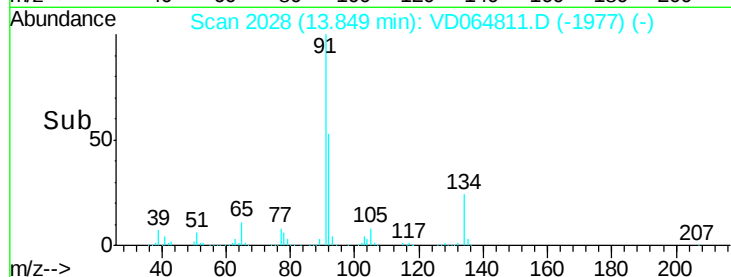
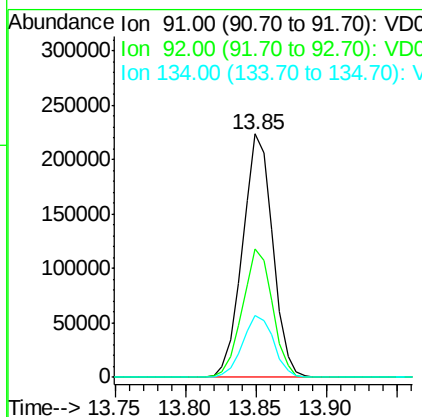
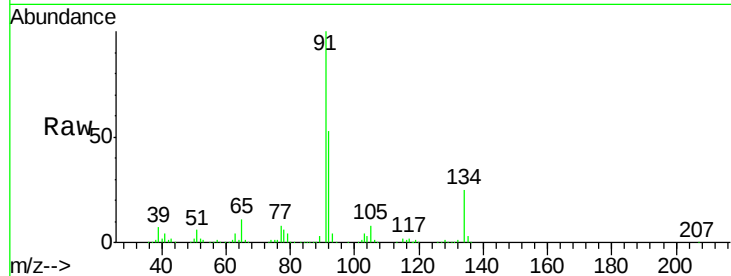
#89
n-Butylbenzene
Concen: 22.620 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. 0.00 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD0109SBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100			
92	52.6	26.8	80.4	
134	26.3	14.0	41.9	

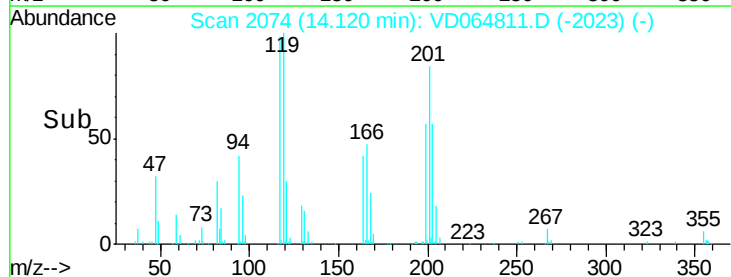
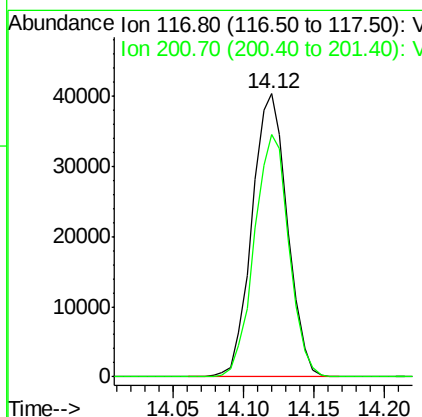
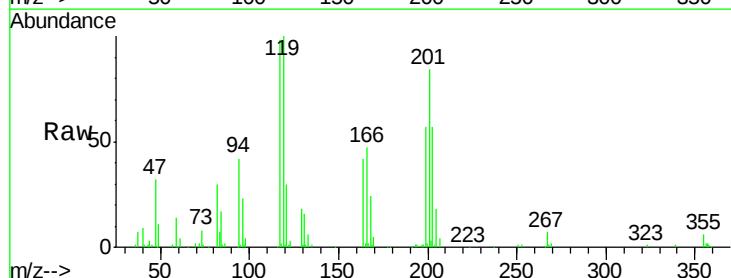
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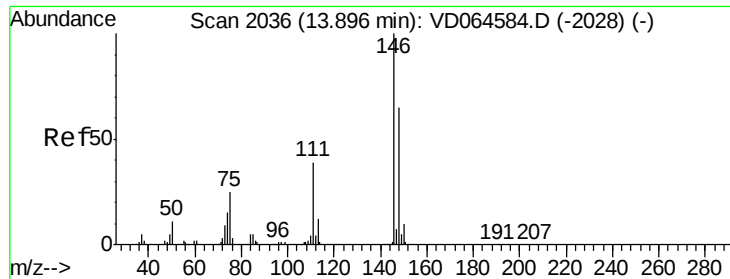
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#90
Hexachloroethane
Concen: 22.580 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.00 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
201	83.9	44.0	131.8	





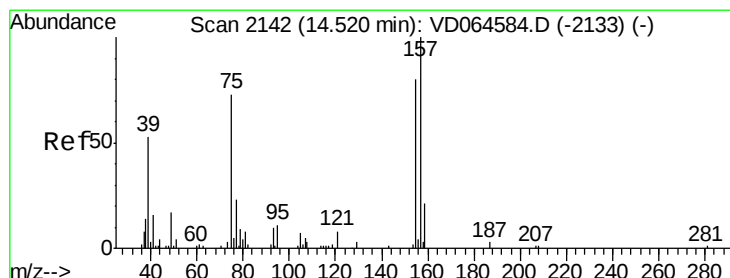
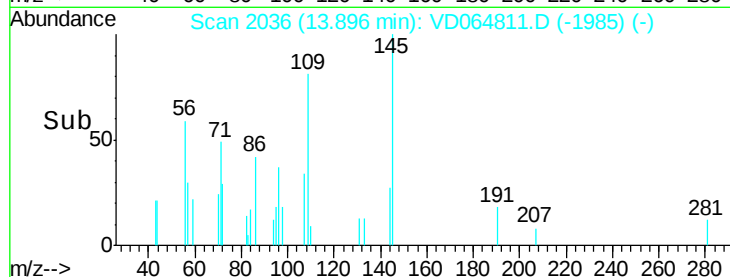
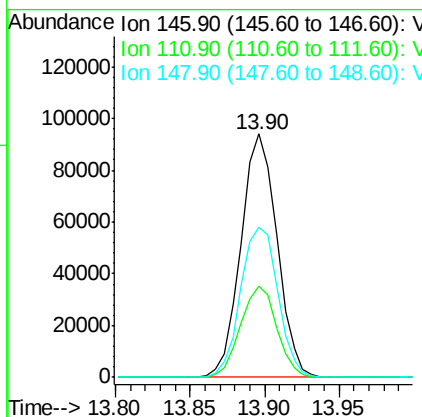
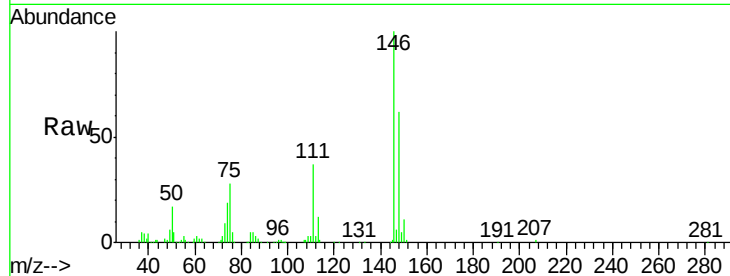
#91
 1,2-Dichlorobenzene
 Concen: 22.485 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. 0.00 min
 Lab File: VD064811.D
 Acq: 09 Jan 2020 12:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0109SBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.6	19.3	57.9
148	63.9	31.9	95.5

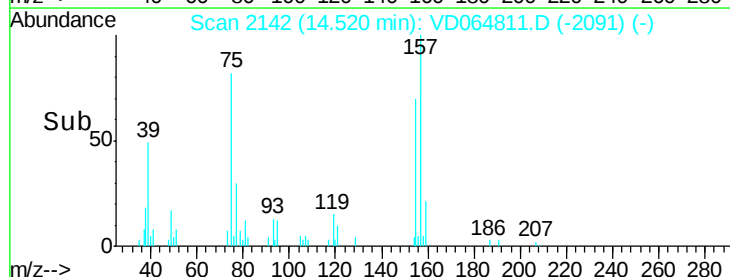
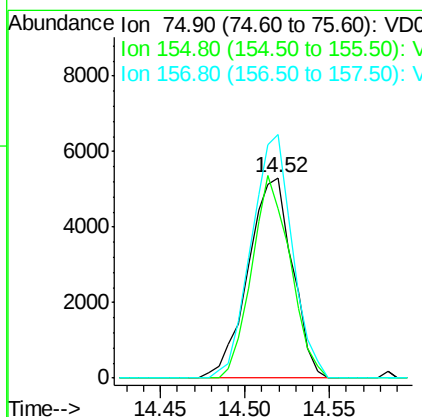
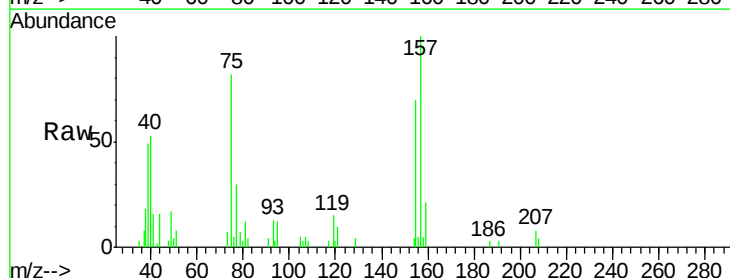
Manual Integrations
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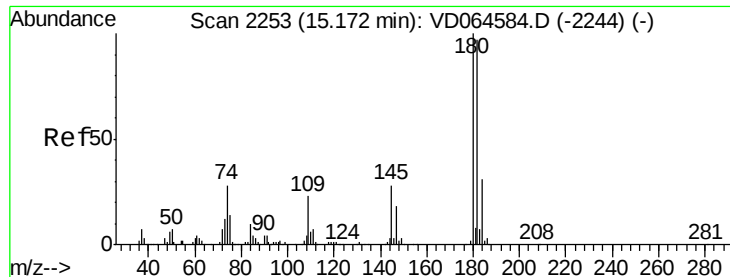
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.577 ug/l
 RT: 14.52 min Scan# 2142
 Delta R.T. 0.00 min
 Lab File: VD064811.D
 Acq: 09 Jan 2020 12:28

Tgt Ion	Ratio	Lower	Upper
75	100		
155	88.1	48.0	144.0
157	112.7	64.1	192.3





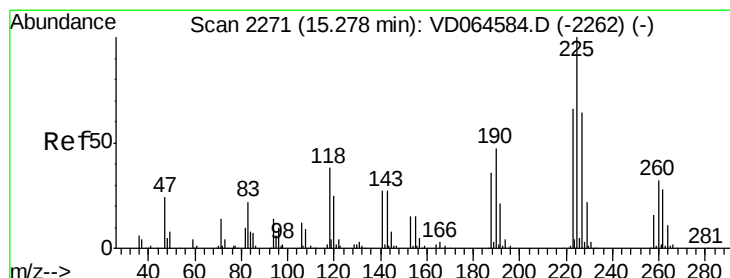
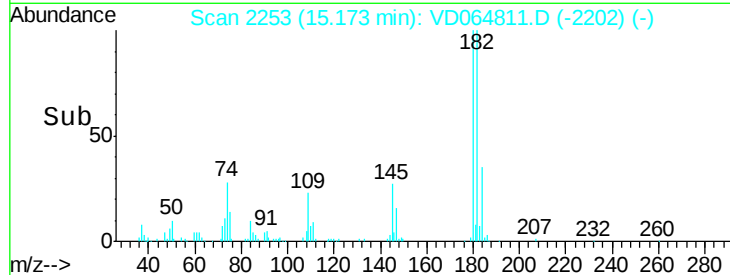
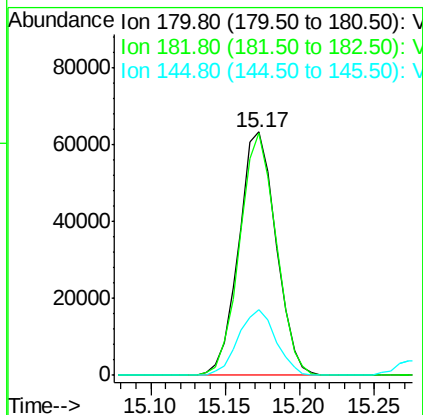
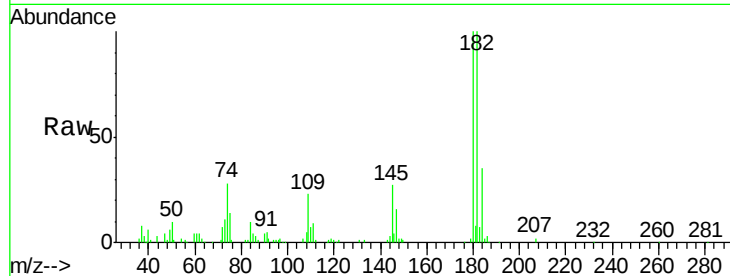
#93
 1,2,4-Trichlorobenzene
 Concen: 21.121 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VD064811.D
 Acq: 09 Jan 2020 12:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0109SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	97.1	48.0	144.2	
145	27.7	13.8	41.4	

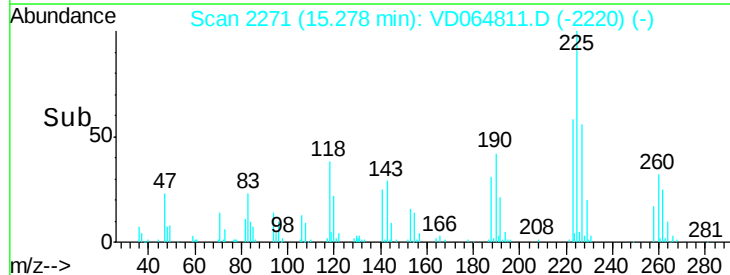
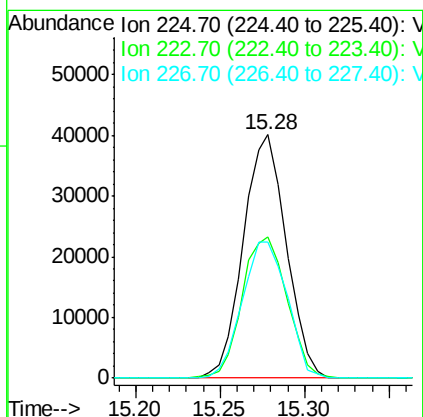
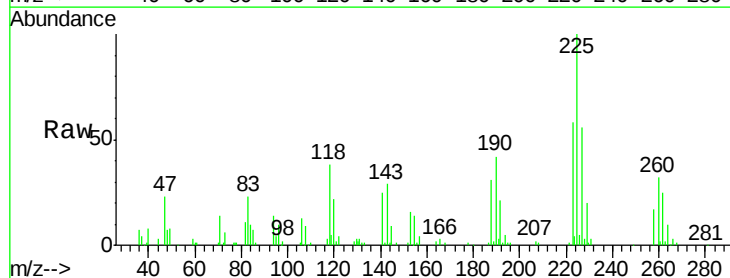
Manual Integrations
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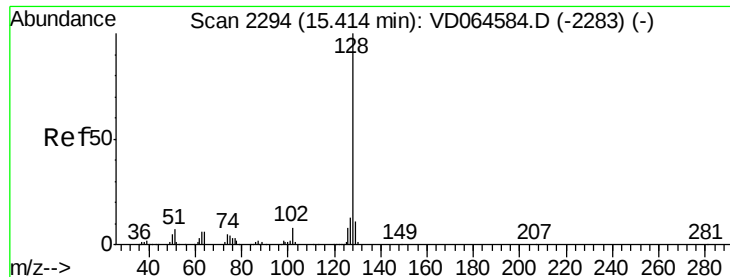
MMDadoda
 1/10/2020 10:42:06 AM



#94
 Hexachlorobutadiene
 Concen: 21.833 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. 0.00 min
 Lab File: VD064811.D
 Acq: 09 Jan 2020 12:28

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	60.5	31.1	93.2	
227	58.6	30.9	92.7	





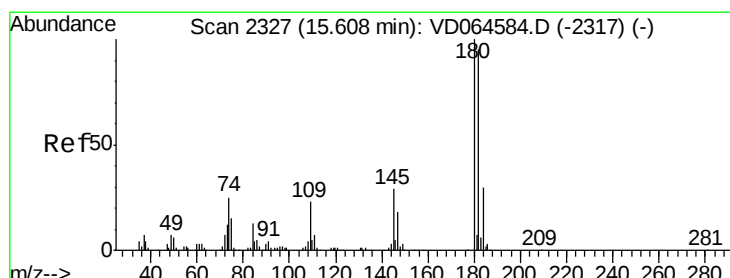
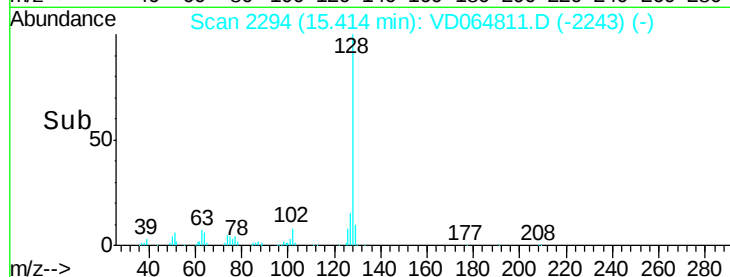
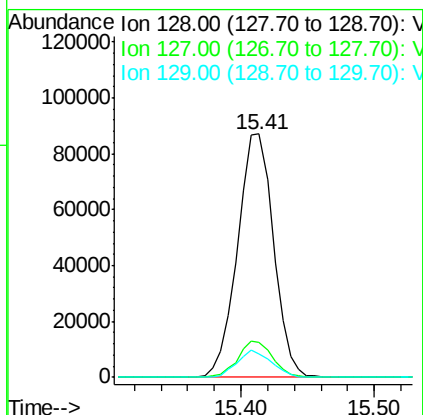
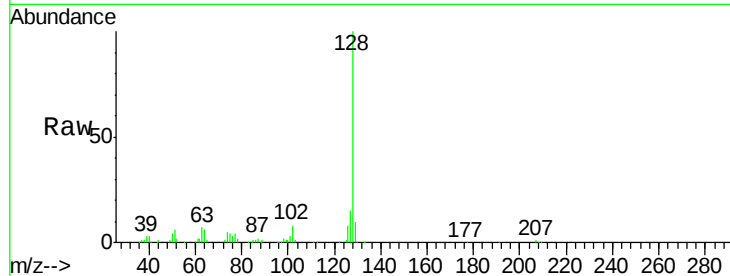
#95
Naphthalene
Concen: 19.890 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.00 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Instrument :
MSVOA_D
ClientSampleId :
VD0109SBSD01

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.4	10.3	15.5
129	10.7	8.5	12.7

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 20.831 ug/l
RT: 15.61 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VD064811.D
Acq: 09 Jan 2020 12:28

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.0	47.9	143.7
145	30.2	14.9	44.7

