

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012820\
 Data File : VD064973.D
 Acq On : 28 Jan 2020 10:50
 Operator : VA/SY
 Sample : VSTDCCC050
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 1/29/2020 12:55:50 PM

Quant Time: Jan 29 01:39:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 13:45:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	513355	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	740727	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	630002	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	310330	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	225606	45.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.64%	
35) Dibromofluoromethane	7.91	113	221921	47.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.36%	
50) Toluene-d8	10.34	98	883320	49.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.34%	
62) 4-Bromofluorobenzene	12.64	95	268102	48.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.52%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	204937	52.991	ug/l	99
3) Chloromethane	2.21	50	276190	48.727	ug/l	94
4) Vinyl Chloride	2.35	62	327471	50.302	ug/l	99
5) Bromomethane	2.77	94	212594	48.546	ug/l	97
6) Chloroethane	2.93	64	209321	48.771	ug/l	100
7) Trichlorofluoromethane	3.27	101	498071	49.539	ug/l	99
8) Diethyl Ether	3.71	74	104408	46.000	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	4.09	101	241924	51.719	ug/l	99
10) Methyl Iodide	4.29	142	275484	55.483	ug/l	99
11) Tert butyl alcohol	5.24	59	55327	203.323	ug/l	98
12) 1,1-Dichloroethene	4.06	96	232975	52.136	ug/l	92
13) Acrolein	3.93	56	91133	267.155	ug/l	95
14) Allyl chloride	4.71	41	375651	52.708	ug/l	98
15) Acrylonitrile	5.43	53	223278	227.167	ug/l	99
16) Acetone	4.16	43	273352	232.599	ug/l	99
17) Carbon Disulfide	4.40	76	750848	51.054	ug/l	99
18) Methyl Acetate	4.73	43	103090	44.701	ug/l	99
19) Methyl tert-butyl Ether	5.48	73	479025	47.976	ug/l	99
20) Methylene Chloride	4.96	84	236125	49.211	ug/l	96
21) trans-1,2-Dichloroethene	5.47	96	262281	50.944	ug/l	94
22) Diisopropyl ether	6.37	45	711976	50.126	ug/l	99
23) Vinyl Acetate	6.31	43	2026030	243.629	ug/l	100
24) 1,1-Dichloroethane	6.27	63	438000	50.225	ug/l	99
25) 2-Butanone	7.22	43	301870	226.912	ug/l	97
26) 2,2-Dichloropropane	7.21	77	420758	53.192	ug/l	98
27) cis-1,2-Dichloroethene	7.21	96	276849	50.381	ug/l	99
28) Bromochloromethane	7.55	49	171857	49.275	ug/l	100
29) Tetrahydrofuran	7.57	42	179321	218.465	ug/l	99
30) Chloroform	7.71	83	445471	49.415	ug/l	99
31) Cyclohexane	7.99	56	419754	48.928	ug/l	98
32) 1,1,1-Trichloroethane	7.91	97	429455	51.208	ug/l	100
36) 1,1-Dichloropropene	8.11	75	369850	51.780	ug/l	99
37) Ethyl Acetate	7.30	43	135450	45.910	ug/l	98
38) Carbon Tetrachloride	8.10	117	392664	52.012	ug/l	95

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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	444531	53.233	ug/l	98
40) Benzene	8.36	78	999976	50.832	ug/l	98
41) Methacrylonitrile	7.53	41	78757	49.553	ug/l	95
42) 1,2-Dichloroethane	8.43	62	276222	47.137	ug/l	99
43) Isopropyl Acetate	8.46	43	257866	46.012	ug/l	98
44) Trichloroethene	9.11	130	283677	51.525	ug/l	99
45) 1,2-Dichloropropane	9.39	63	237728	49.849	ug/l	97
46) Dibromomethane	9.48	93	122620	47.096	ug/l	98
47) Bromodichloromethane	9.67	83	335371	49.502	ug/l	97
48) Methyl methacrylate	9.46	41	119529	46.347	ug/l	96
49) 1,4-Dioxane	9.46	88	26901	890.862	ug/l #	87
51) 4-Methyl-2-Pentanone	10.23	43	645852	230.318	ug/l	100
52) Toluene	10.41	92	655292	51.667	ug/l	100
53) t-1,3-Dichloropropene	10.63	75	319620	49.527	ug/l	99
54) cis-1,3-Dichloropropene	10.09	75	376372	49.812	ug/l	99
55) 1,1,2-Trichloroethane	10.80	97	165784	47.271	ug/l	98
56) Ethyl methacrylate	10.67	69	204492	48.759	ug/l	99
57) 1,3-Dichloropropane	10.95	76	288932	48.033	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.94	63	289580	207.836	ug/l	98
59) 2-Hexanone	10.99	43	477544	246.889	ug/l	99
60) Dibromochloromethane	11.14	129	225148	48.032	ug/l	98
61) 1,2-Dibromoethane	11.25	107	161054	47.692	ug/l	97
64) Tetrachloroethene	10.88	164	240440	52.814	ug/l	97
65) Chlorobenzene	11.67	112	660919	51.669	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.75	131	251881	52.359	ug/l	99
67) Ethyl Benzene	11.75	91	1238731	54.548	ug/l	98
68) m/p-Xylenes	11.86	106	964973	110.365	ug/l	100
69) o-Xylene	12.18	106	423041	54.516	ug/l	99
70) Styrene	12.20	104	756812	54.749	ug/l	99
71) Bromoform	12.37	173	132116	49.405	ug/l #	100
73) Isopropylbenzene	12.48	105	1175199	55.406	ug/l	100
74) N-amyl acetate	12.30	43	234525	49.412	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.74	83	169783	47.626	ug/l	96
76) 1,2,3-Trichloropropane	12.79	75	114193m	44.334	ug/l	
77) Bromobenzene	12.77	156	266051	51.265	ug/l	99
78) n-propylbenzene	12.83	91	1398097	55.426	ug/l	100
79) 2-Chlorotoluene	12.91	91	753340	54.441	ug/l	98
80) 1,3,5-Trimethylbenzene	12.97	105	962980	55.401	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.54	75	59574	49.385	ug/l	98
82) 4-Chlorotoluene	13.01	91	781229	53.235	ug/l	99
83) tert-Butylbenzene	13.23	119	806530	54.677	ug/l	99
84) 1,2,4-Trimethylbenzene	13.28	105	949671	53.933	ug/l	100
85) sec-Butylbenzene	13.41	105	1160100	55.545	ug/l	98
86) p-Isopropyltoluene	13.53	119	1086664	55.601	ug/l	100
87) 1,3-Dichlorobenzene	13.53	146	520539	52.276	ug/l	100
88) 1,4-Dichlorobenzene	13.60	146	507316	51.332	ug/l	100
89) n-Butylbenzene	13.86	91	992167	55.627	ug/l	100
90) Hexachloroethane	14.12	117	203848	54.086	ug/l	100
91) 1,2-Dichlorobenzene	13.90	146	430699	50.949	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.52	75	26584	46.598	ug/l	94

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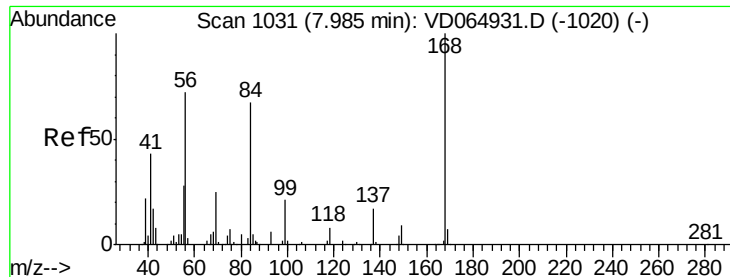
Manual Integrations
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Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.18	180	303901	51.964	ug/l	99
94) Hexachlorobutadiene	15.28	225	191503	51.769	ug/l	98
95) Naphthalene	15.41	128	481036	50.965	ug/l	99
96) 1,2,3-Trichlorobenzene	15.61	180	256487	50.581	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 513355

Ion Ratio Lower Upper

168 100

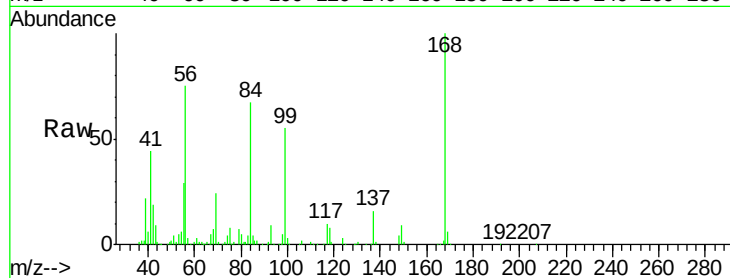
99 54.6 43.3 64.9

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

250000

200000

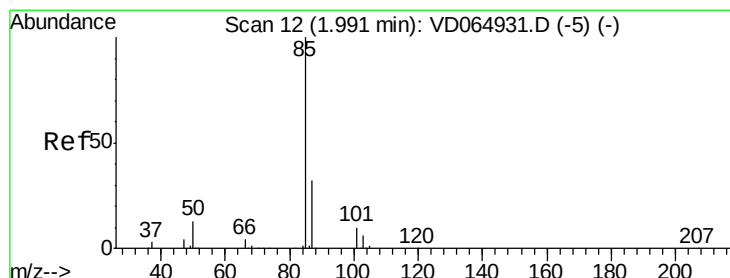
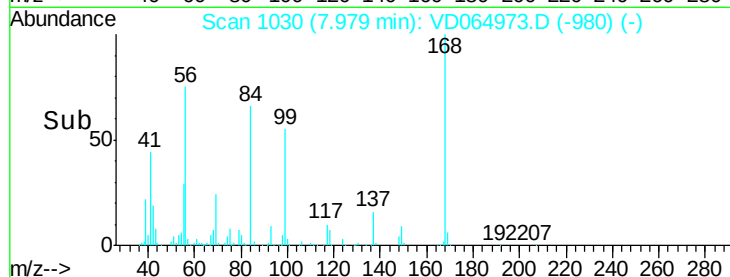
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 52.991 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD064973.D

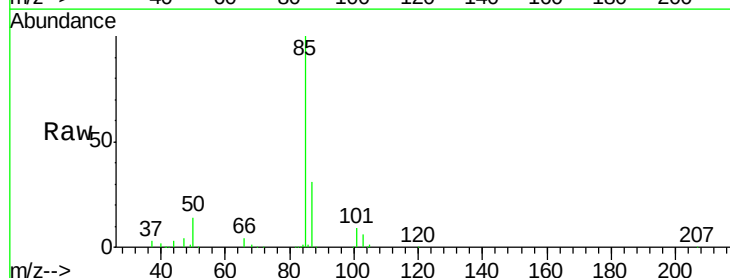
Acq: 28 Jan 2020 10:50

Tgt Ion: 85 Resp: 204937

Ion Ratio Lower Upper

85 100

87 31.1 15.8 47.3



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

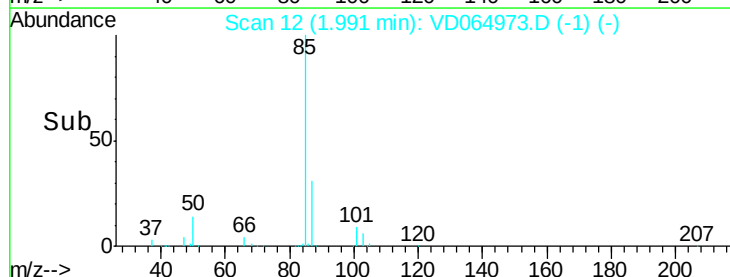
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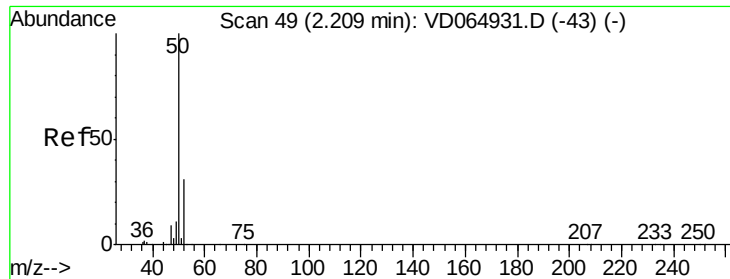
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50000

0

Time-->





#3

Chloromethane

Concen: 48.727 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 276190

Ion Ratio Lower Upper

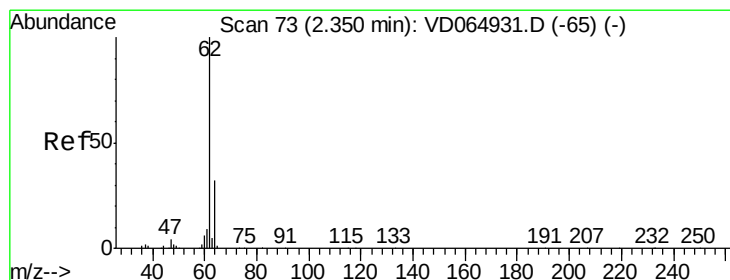
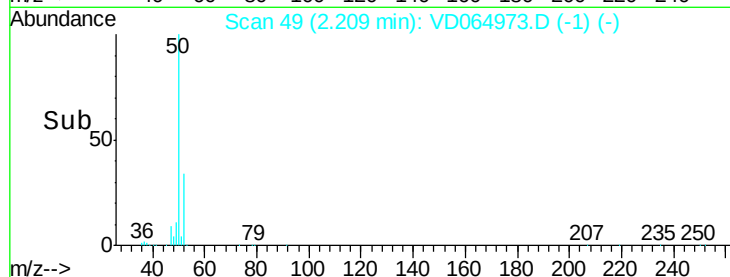
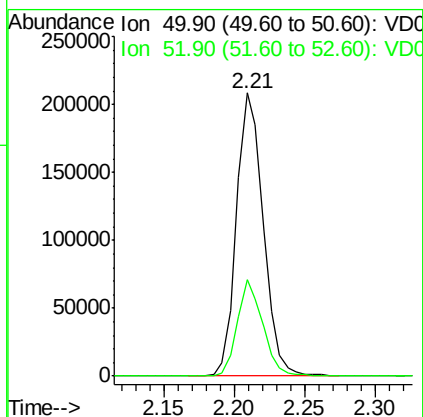
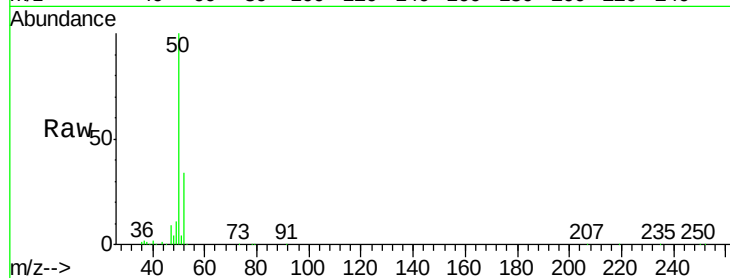
50 100

52 34.0 24.6 36.8

Manual Integrations
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#4

Vinyl Chloride

Concen: 50.302 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD064973.D

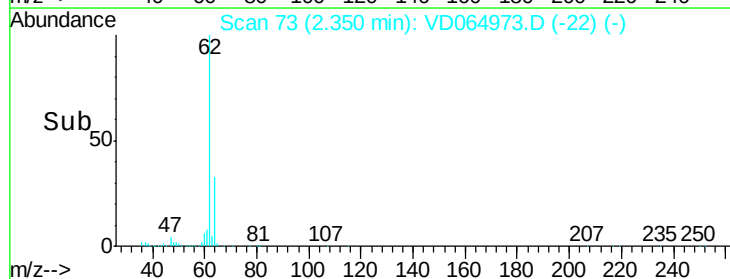
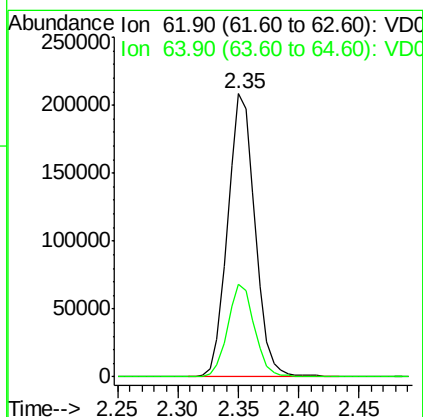
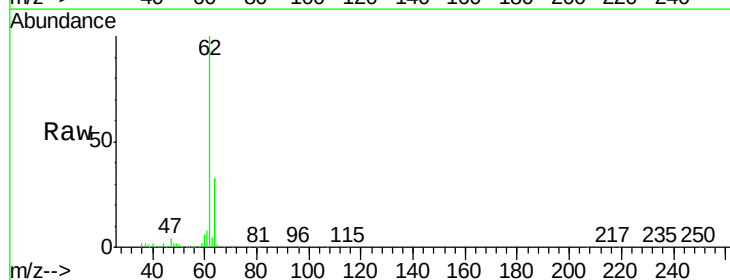
Acq: 28 Jan 2020 10:50

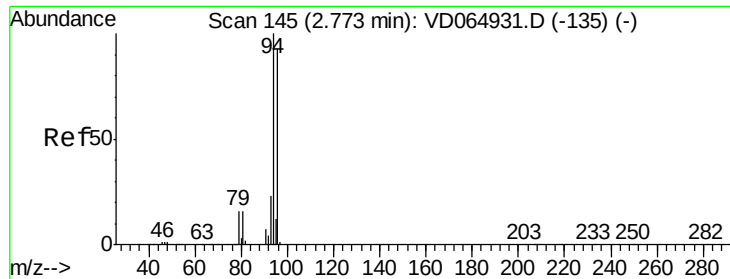
Tgt Ion: 62 Resp: 327471

Ion Ratio Lower Upper

62 100

64 32.6 25.6 38.4





#5

Bromomethane

Concen: 48.546 ug/l

RT: 2.77 min Scan# 145

Delta R.T. 0.00 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 212594

Ion Ratio Lower Upper

94 100

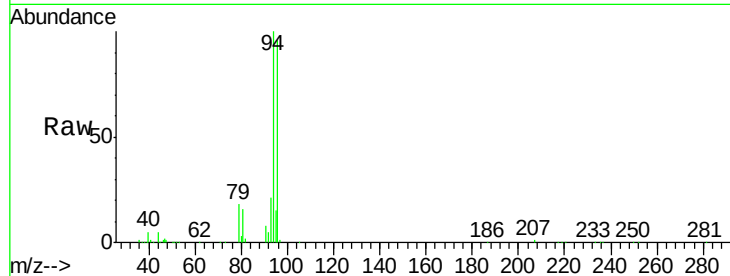
96 95.8 74.6 111.8

Manual Integrations

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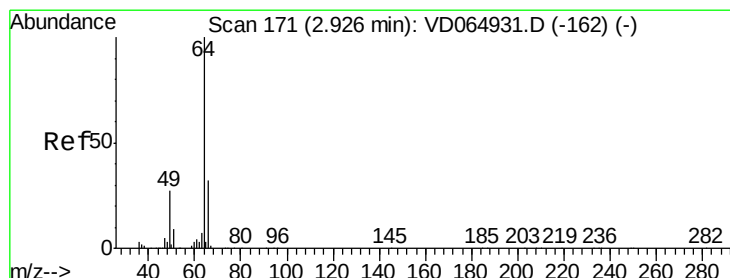
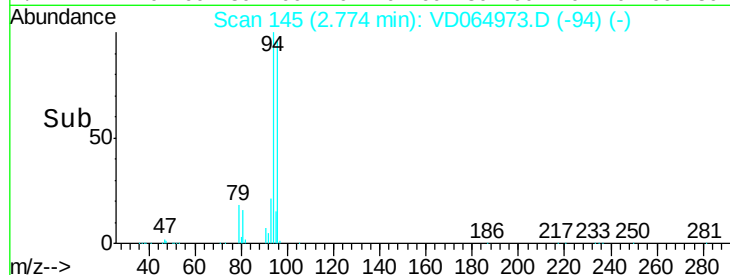
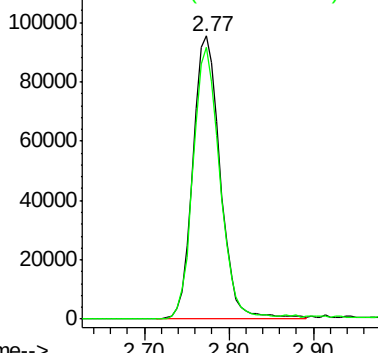
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Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 48.771 ug/l

RT: 2.93 min Scan# 171

Delta R.T. 0.00 min

Lab File: VD064973.D

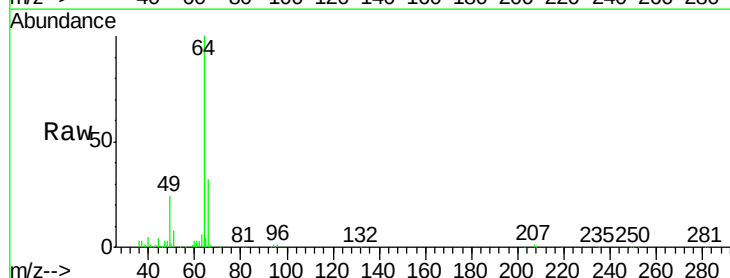
Acq: 28 Jan 2020 10:50

Tgt Ion: 64 Resp: 209321

Ion Ratio Lower Upper

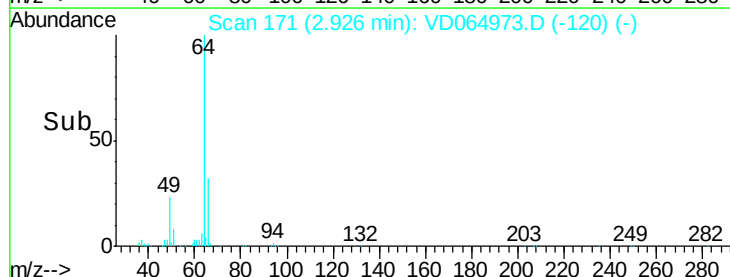
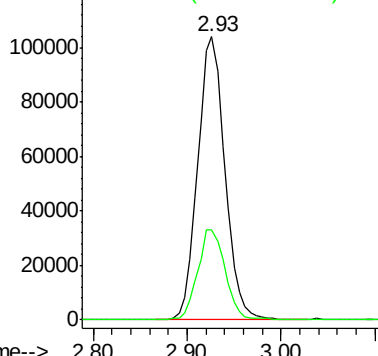
64 100

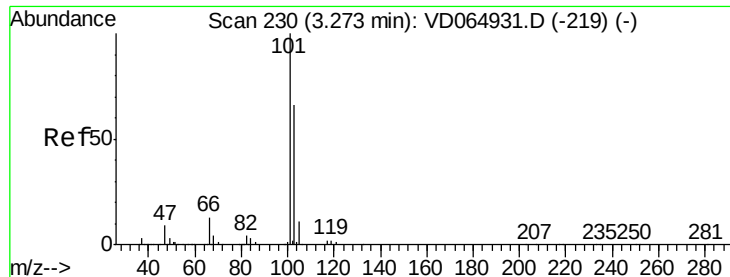
66 31.8 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

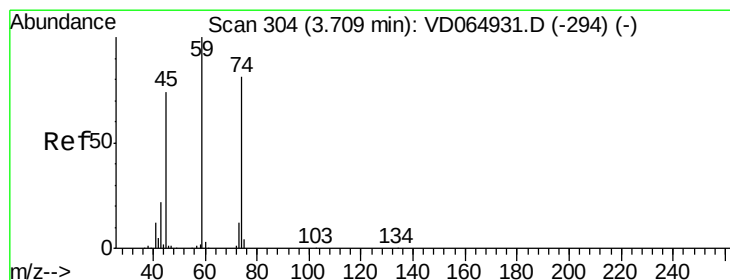
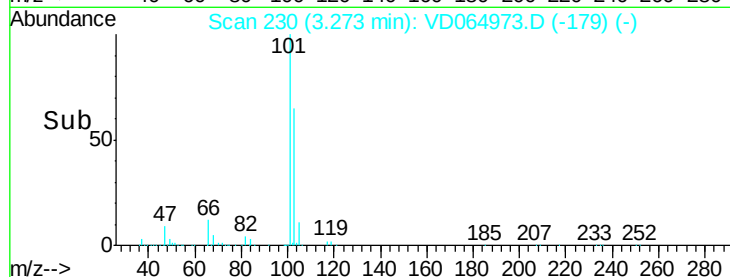
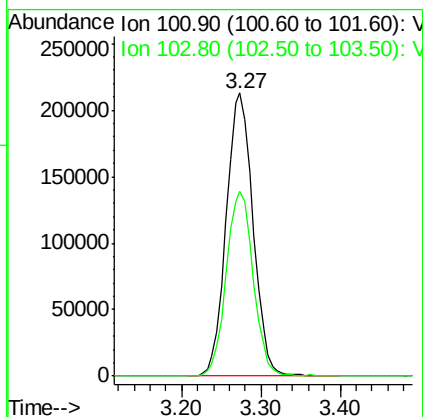
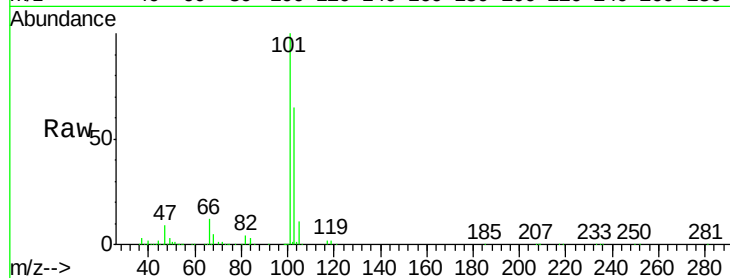
Trichlorofluoromethane
Concen: 49.539 ug/l
RT: 3.27 min Scan# 230
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

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Tot Ion	Ratio	Lower	Upper
101	100		
103	65.2	52.5	78.7

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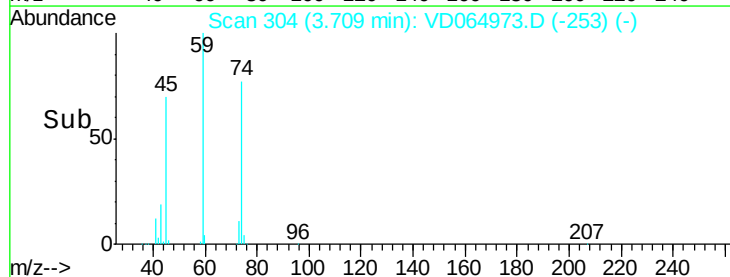
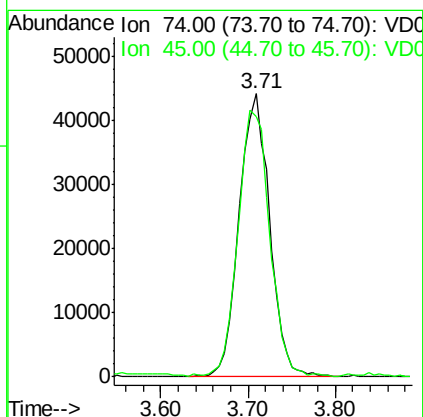
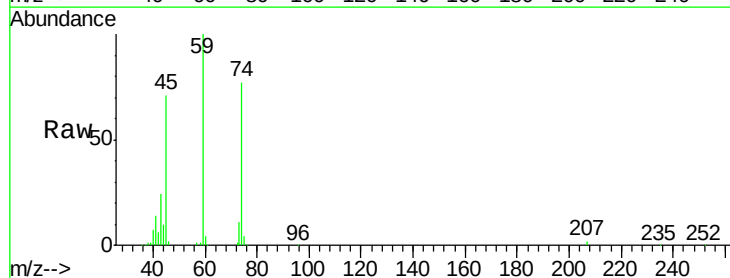
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1/29/2020 12:55:50 PM

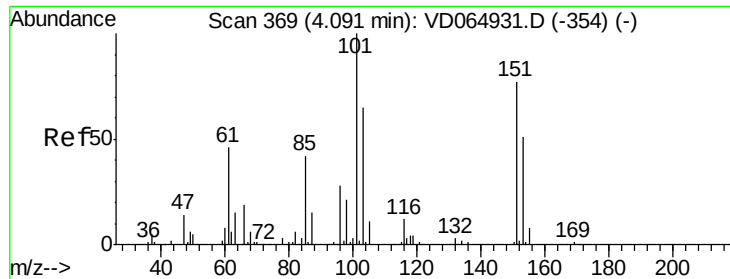


#8

Diethyl Ether
Concen: 46.000 ug/l
RT: 3.71 min Scan# 304
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Tgt Ion	Ratio	Lower	Upper
74	100		
45	98.4	48.5	145.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 51.719 ug/l

RT: 4.09 min Scan# 368

Delta R.T. -0.01 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Instrument :

MSVOA_D

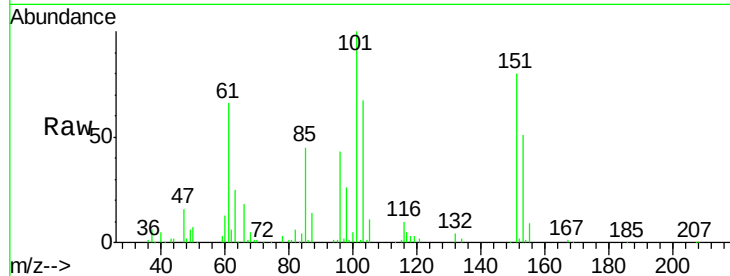
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	241924
Ion Ratio	Lower	Upper	
101	100		
85	44.8	35.0	52.4
151	81.5	64.6	96.8

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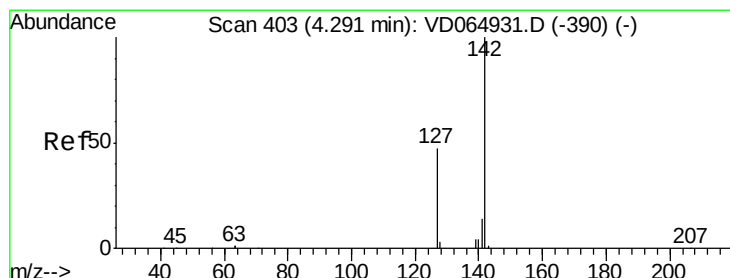
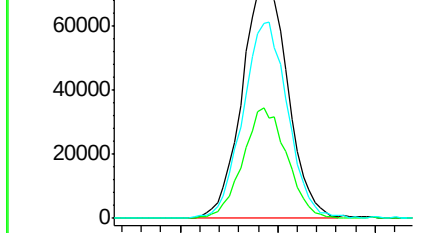
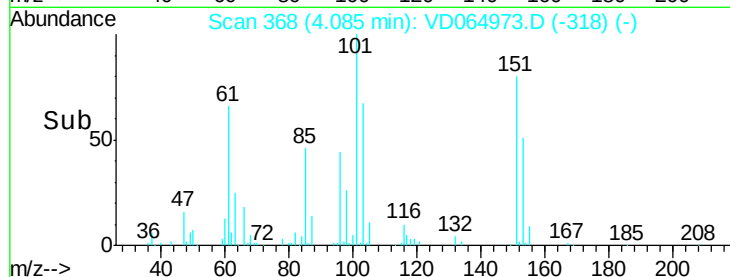


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V

Time-->



#10

Methyl Iodide

Concen: 55.483 ug/l

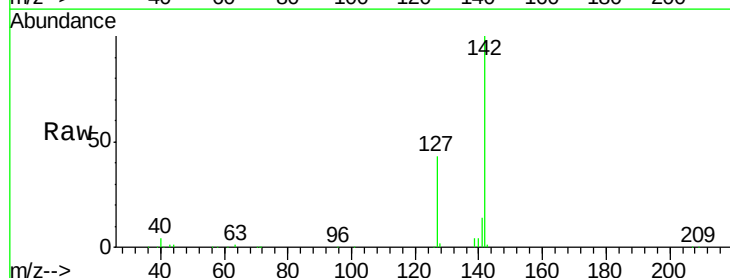
RT: 4.29 min Scan# 403

Delta R.T. 0.00 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Tgt Ion:	142	Resp:	275484
Ion Ratio	Lower	Upper	
142	100		
127	44.8	36.2	54.2
141	14.6	11.6	17.4

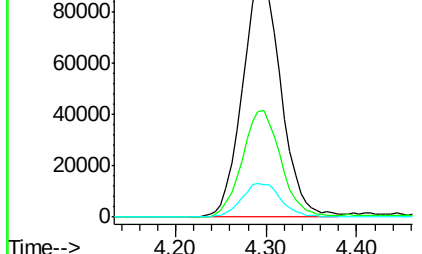
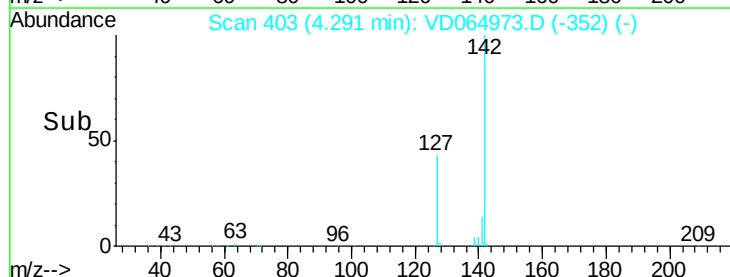


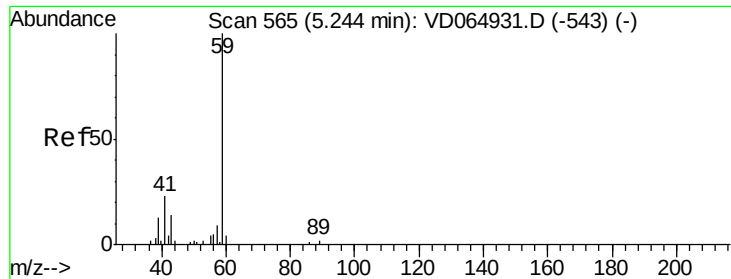
Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

Time-->





#11

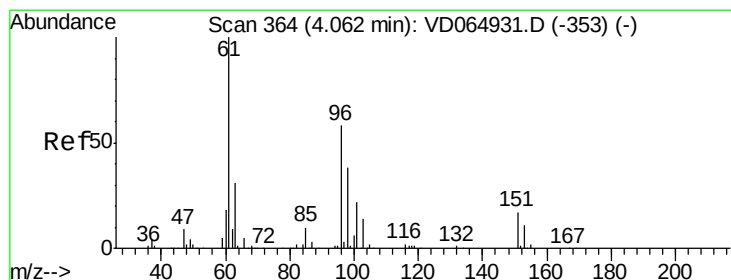
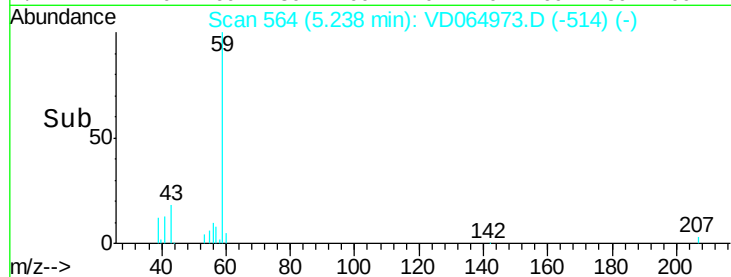
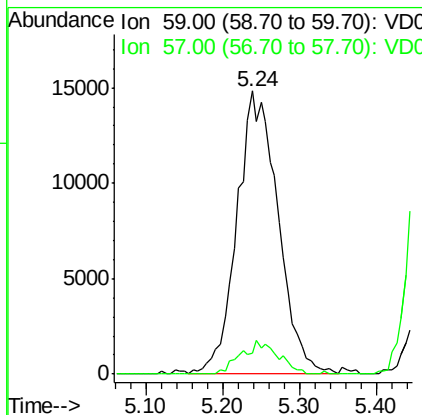
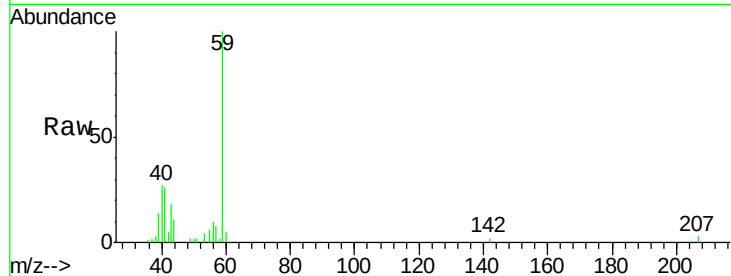
Tert butyl alcohol
 Concen: 203.323 ug/l
 RT: 5.24 min Scan# 564
 Delta R.T. -0.01 min
 Lab File: VD064973.D
 Acq: 28 Jan 2020 10:50

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	59	Resp	55327
Ion Ratio	100	Lower	Upper
59	100		
57	10.5	7.7	11.5

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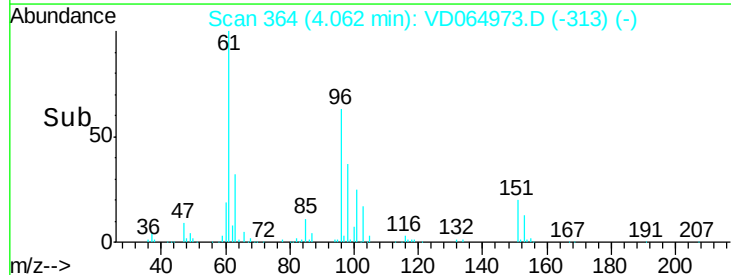
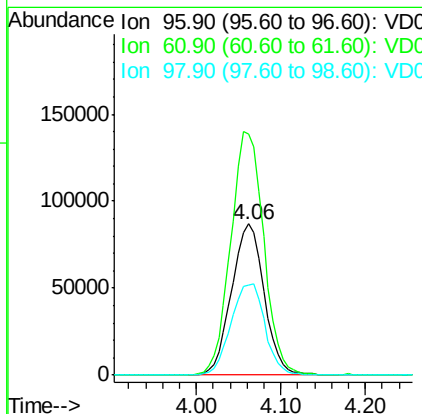
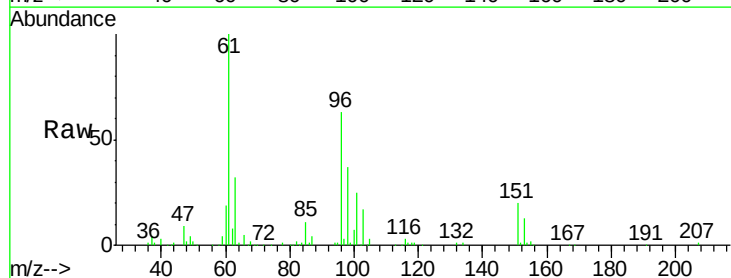
MMDadoda
 1/29/2020 12:55:50 PM

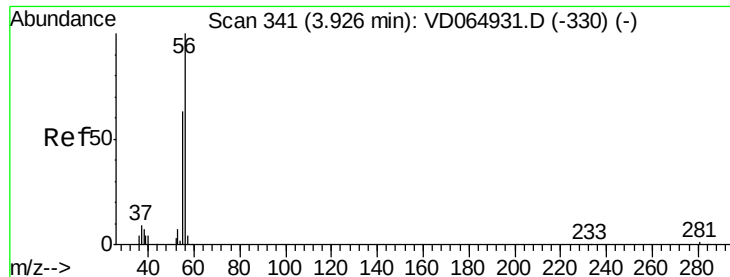


#12

1,1-Dichloroethene
 Concen: 52.136 ug/l
 RT: 4.06 min Scan# 364
 Delta R.T. 0.00 min
 Lab File: VD064973.D
 Acq: 28 Jan 2020 10:50

Tgt Ion	96	Resp	232975
Ion Ratio	100	Lower	Upper
96	100		
61	159.5	137.0	205.4
98	59.6	52.1	78.1





#13

Acrolein

Concen: 267.155 ug/l

RT: 3.93 min Scan# 341

Delta R.T. 0.00 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 91133

Ion Ratio Lower Upper

56 100

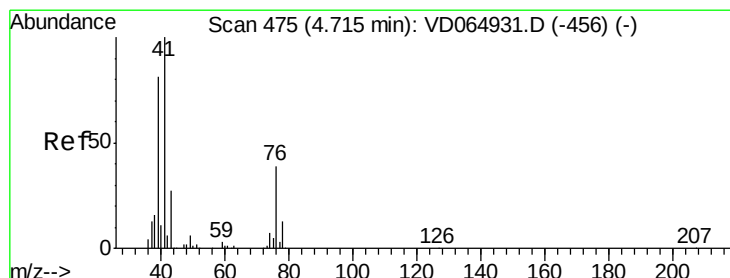
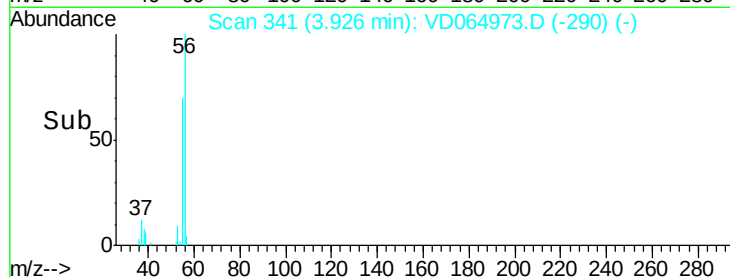
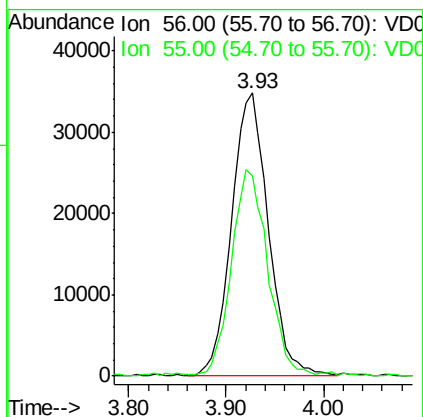
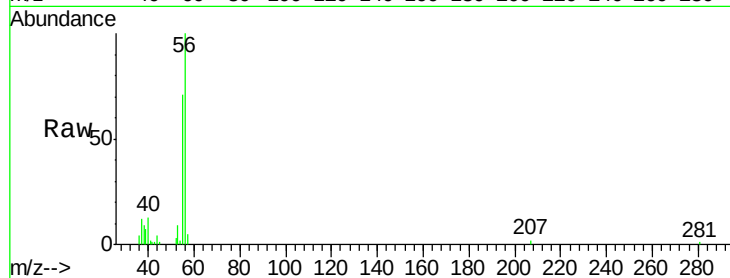
55 70.2 59.7 89.5

Manual Integrations

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#14

Allyl chloride

Concen: 52.708 ug/l

RT: 4.71 min Scan# 475

Delta R.T. 0.00 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

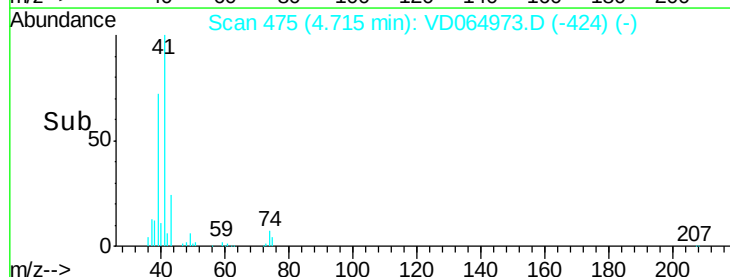
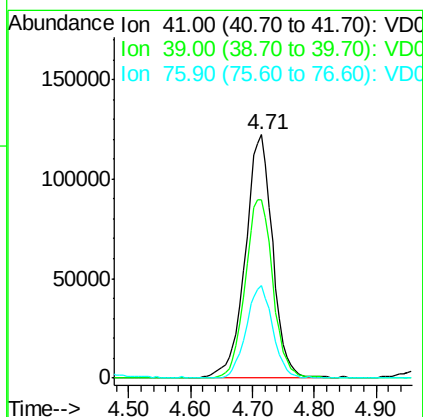
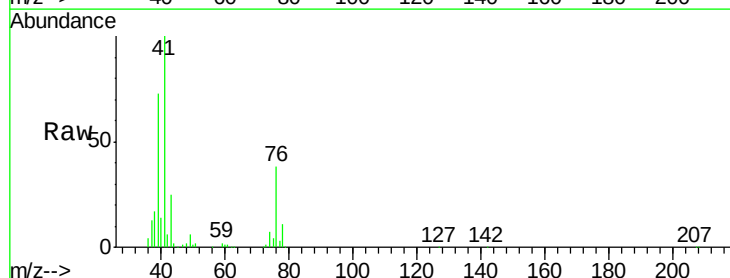
Tgt Ion: 41 Resp: 375651

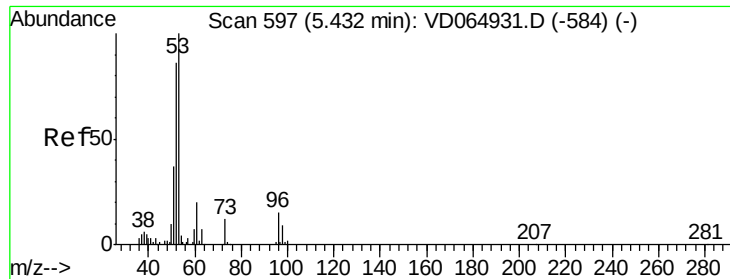
Ion Ratio Lower Upper

41 100

39 74.4 62.0 93.0

76 36.7 29.3 43.9





#15

Acrylonitrile

Concen: 227.167 ug/l

RT: 5.43 min Scan# 597

Delta R.T. 0.00 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Instrument :

MSVOA_D

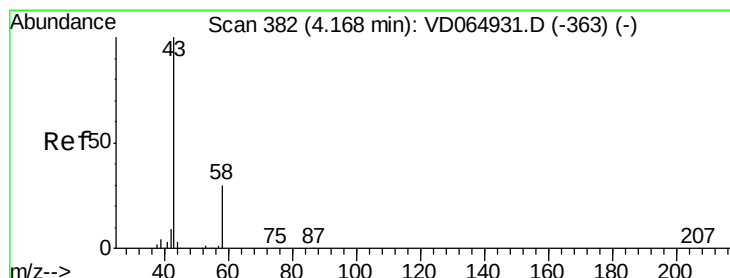
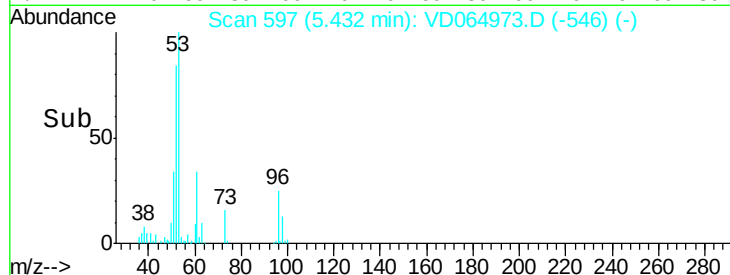
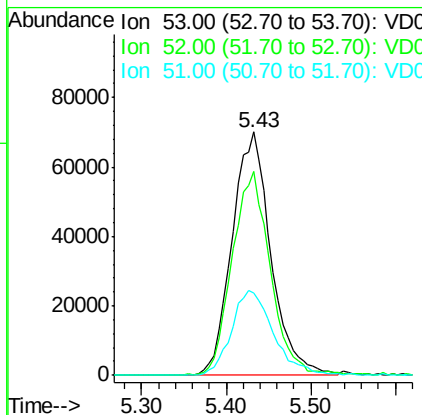
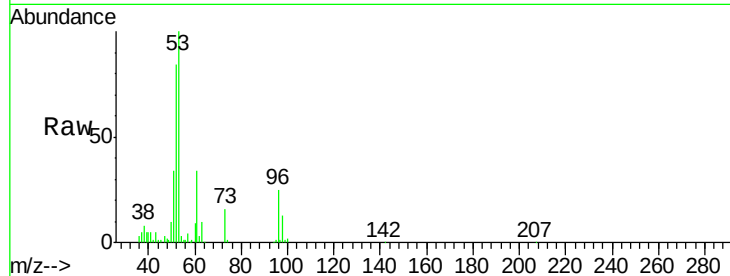
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	223278
Ion	Ratio	Lower	Upper
53	100		
52	82.5	66.7	100.1
51	37.7	31.1	46.7

Manual Integrations
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1/29/2020 12:55:50 PM



#16

Acetone

Concen: 232.599 ug/l

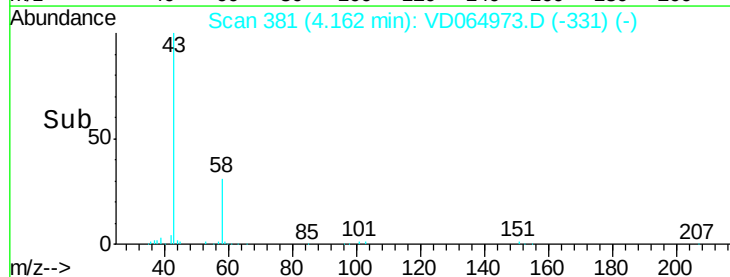
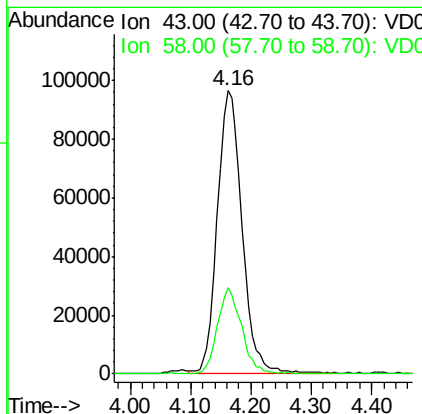
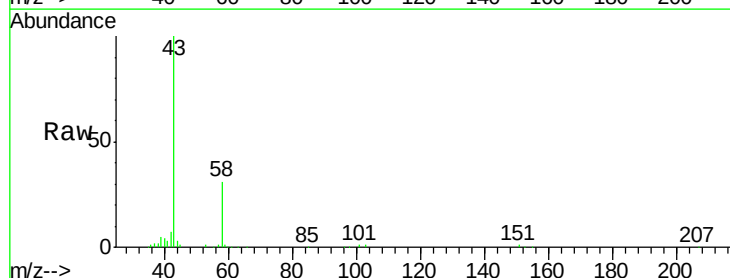
RT: 4.16 min Scan# 381

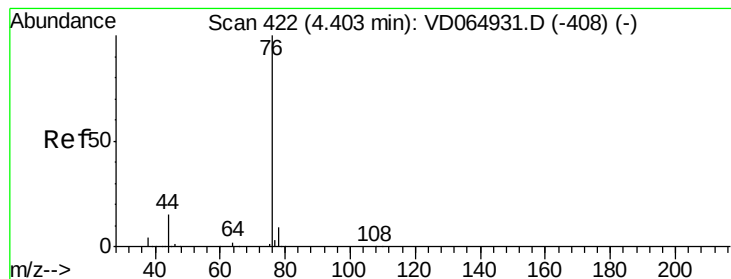
Delta R.T. -0.01 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Tgt Ion:	43	Resp:	273352
Ion	Ratio	Lower	Upper
43	100		
58	30.4	23.8	35.8





#17

Carbon Disulfide

Concen: 51.054 ug/l

RT: 4.40 min Scan# 422

Delta R.T. 0.00 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 750848

Ion Ratio Lower Upper

76 100

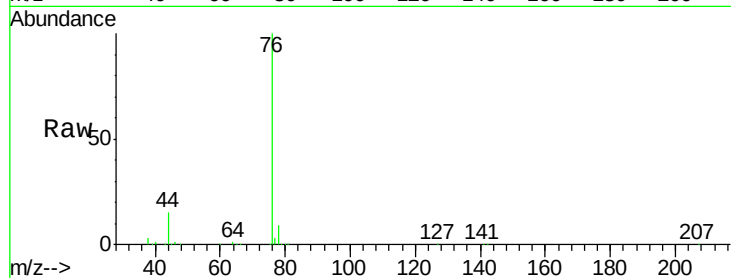
78 9.2 7.1 10.7

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

4.40

250000

200000

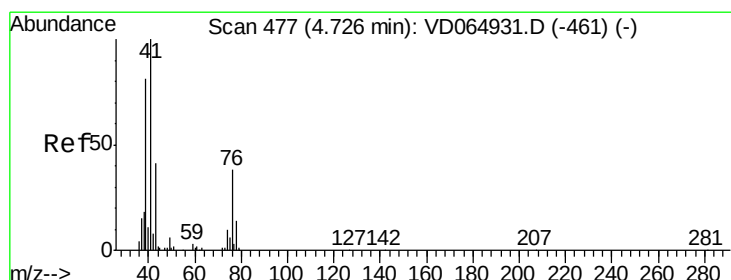
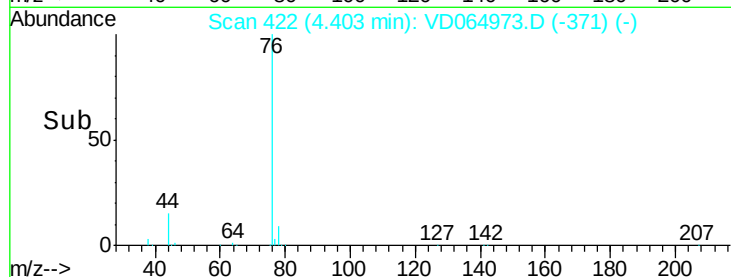
150000

100000

50000

0

Time--> 4.20 4.30 4.40 4.50 4.60



#18

Methyl Acetate

Concen: 44.701 ug/l

RT: 4.73 min Scan# 477

Delta R.T. 0.00 min

Lab File: VD064973.D

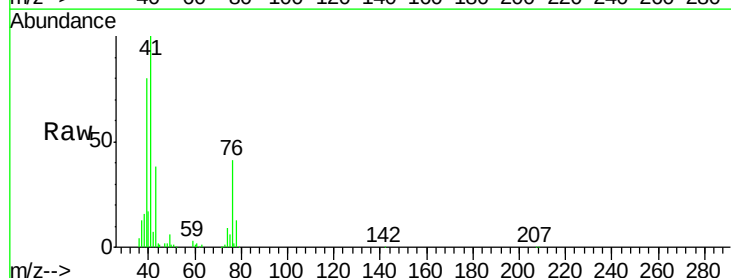
Acq: 28 Jan 2020 10:50

Tgt Ion: 43 Resp: 103090

Ion Ratio Lower Upper

43 100

74 24.2 19.1 28.7



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

4.73

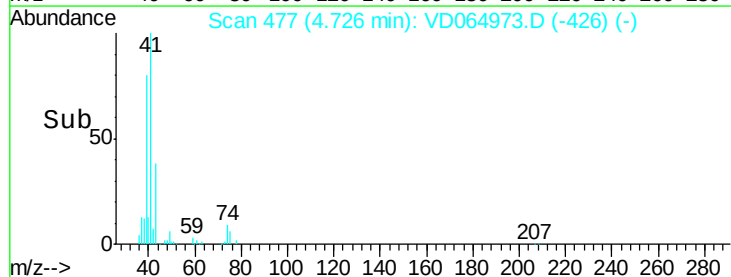
30000

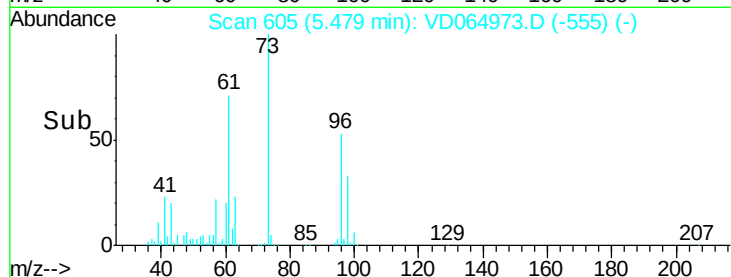
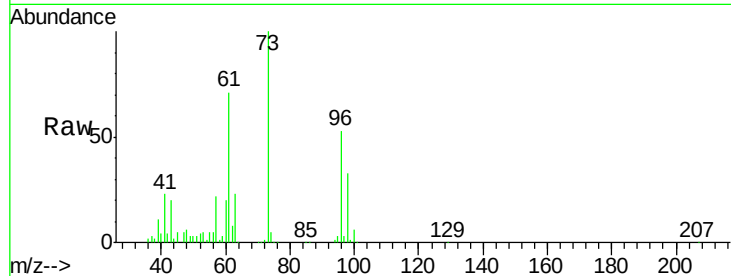
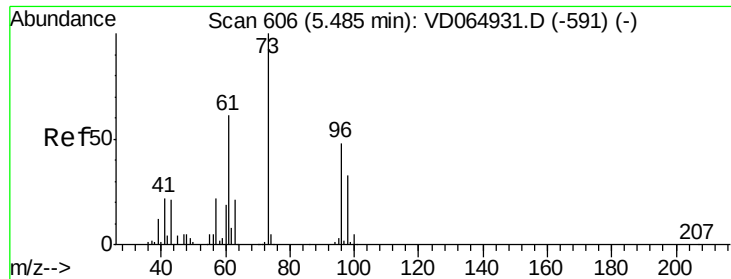
20000

10000

0

Time--> 4.60 4.70 4.80





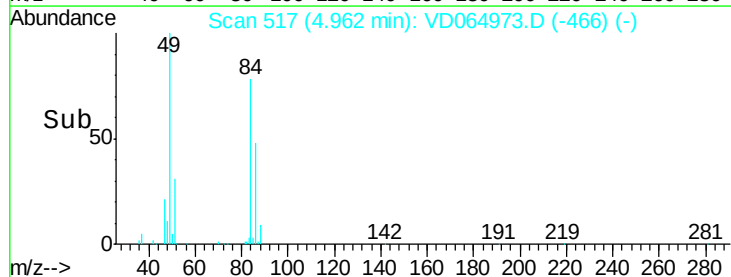
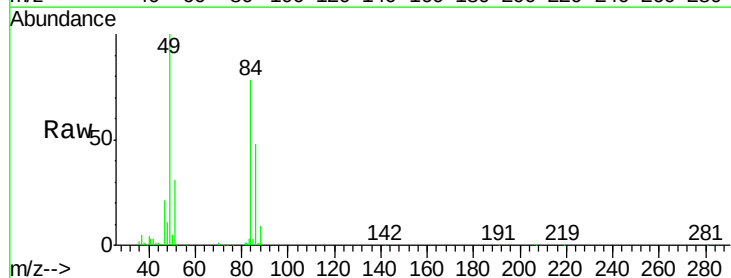
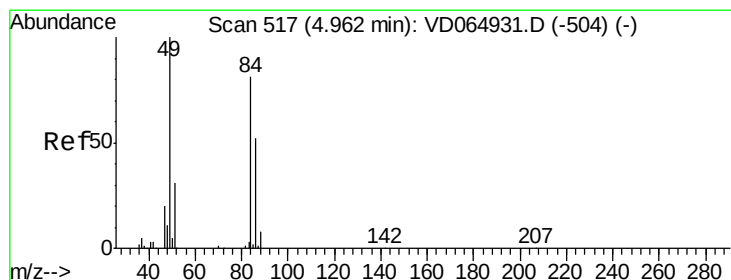
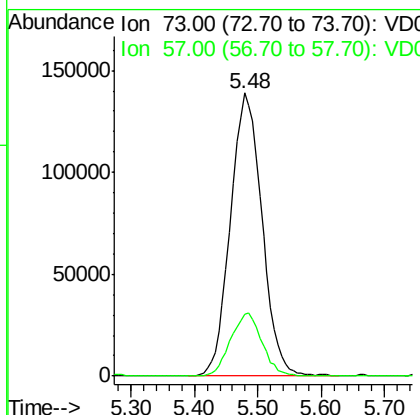
#19
Methyl tert-butyl Ether
Concen: 47.976 ug/l
RT: 5.48 min Scan# 605
Delta R.T. -0.01 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Tot Ion: 73 Resp: 479025
Ion Ratio Lower Upper
73 100
57 22.1 17.9 26.9

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

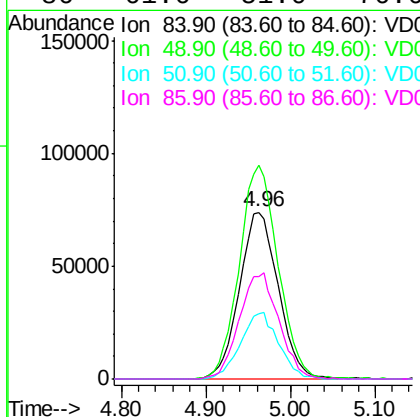
Manual Integrations
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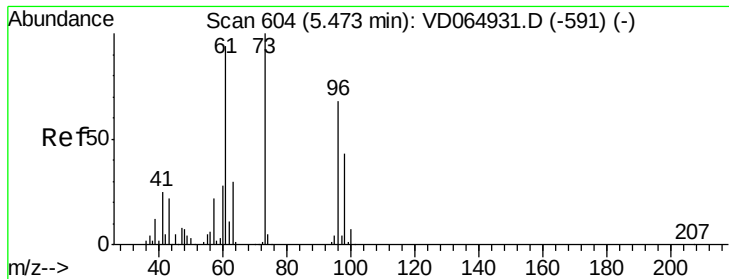
MMDadoda
1/29/2020 12:55:50 PM



#20
Methylene Chloride
Concen: 49.211 ug/l
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Tgt Ion: 84 Resp: 236125
Ion Ratio Lower Upper
84 100
49 128.3 98.4 147.6
51 39.2 30.8 46.2
86 61.6 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 50.944 ug/l

RT: 5.47 min Scan# 604

Delta R.T. 0.00 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Instrument :

MSVOA_D

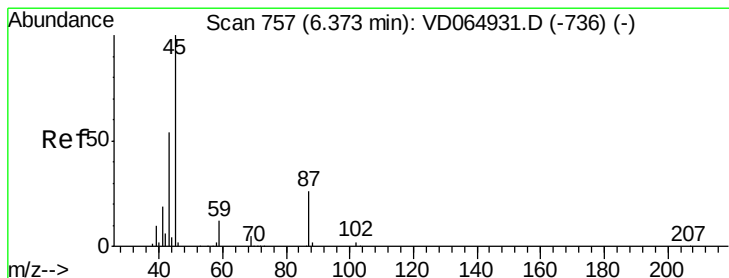
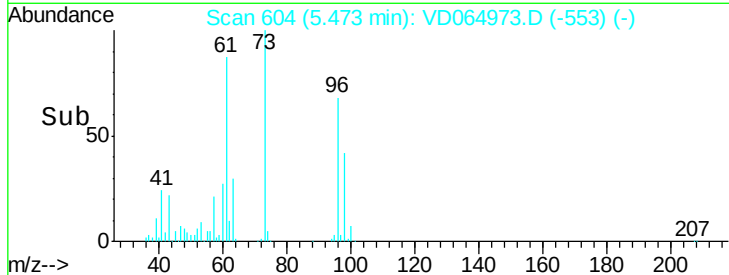
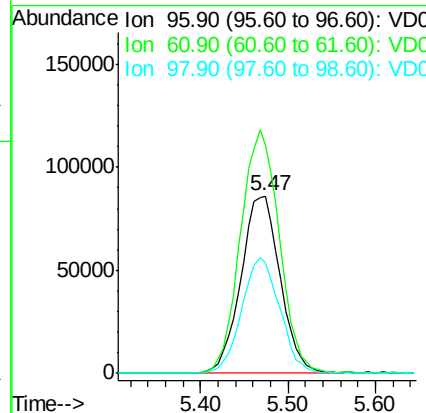
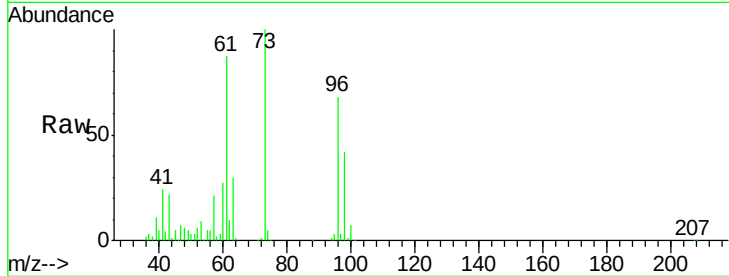
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	262281
Ion	Ratio	Lower	Upper
96	100		
61	128.2	110.4	165.6
98	62.5	50.5	75.7

Manual Integrations
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1/29/2020 12:55:50 PM



#22

Diisopropyl ether

Concen: 50.126 ug/l

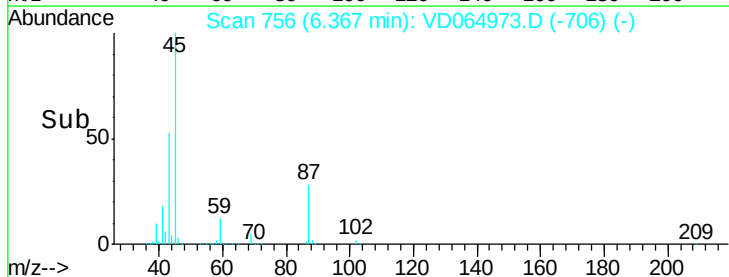
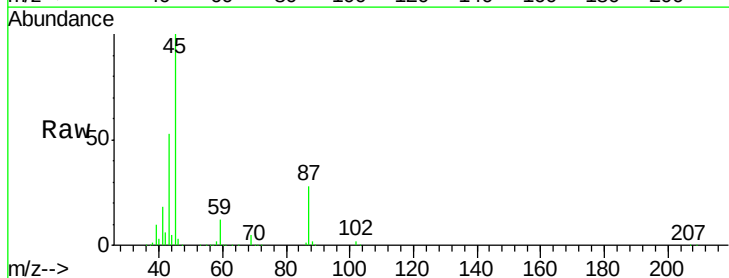
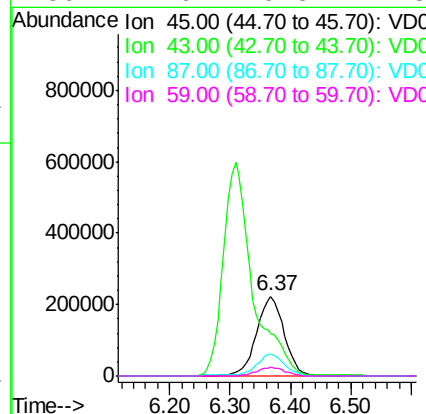
RT: 6.37 min Scan# 756

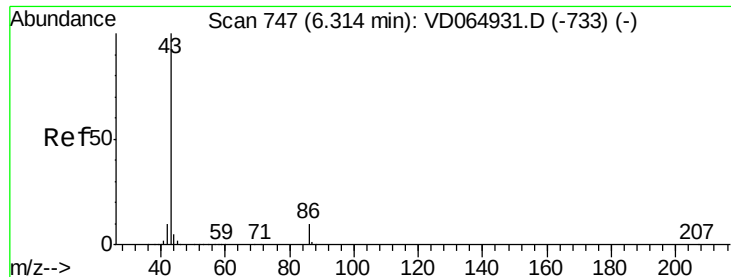
Delta R.T. -0.01 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Tgt Ion:	45	Resp:	711976
Ion	Ratio	Lower	Upper
45	100		
43	53.2	43.1	64.7
87	27.9	21.4	32.2
59	11.9	9.5	14.3





#23

Vinyl Acetate

Concen: 243.629 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.01 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 2026030

Ion Ratio Lower Upper

43 100

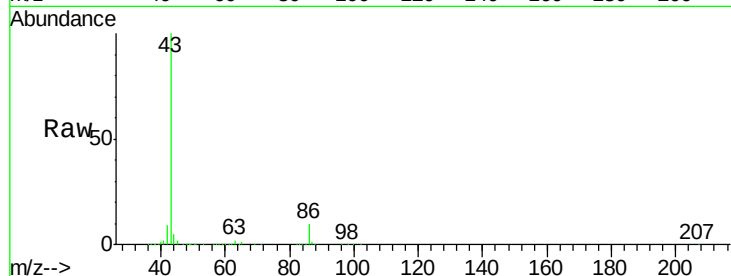
86 10.3 8.3 12.5

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

6.31

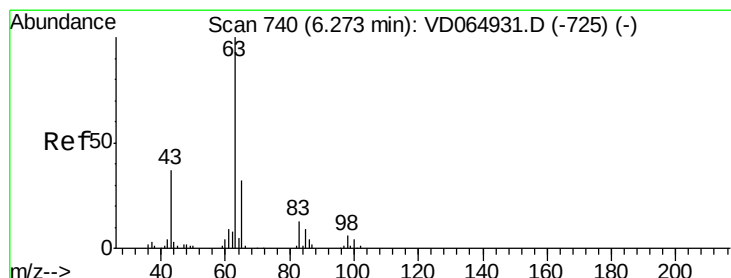
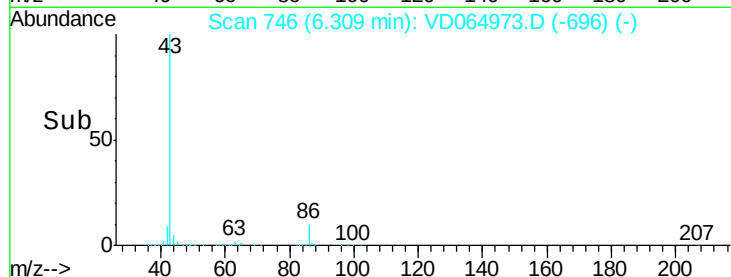
600000

400000

200000

0

Time--> 6.10 6.20 6.30 6.40 6.50



#24

1,1-Dichloroethane

Concen: 50.225 ug/l

RT: 6.27 min Scan# 739

Delta R.T. -0.01 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

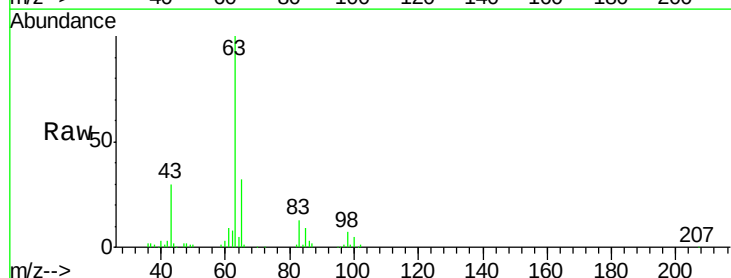
Tgt Ion: 63 Resp: 438000

Ion Ratio Lower Upper

63 100

98 6.9 3.1 9.3

100 4.7 2.3 6.8



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC

6.27

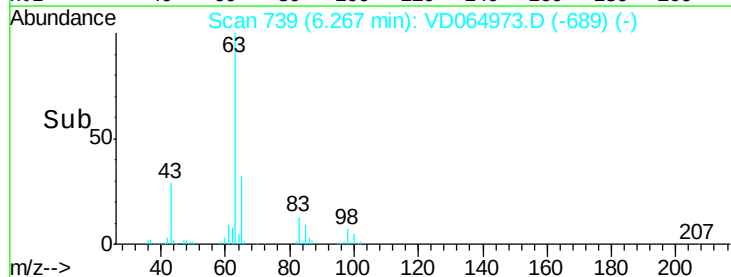
150000

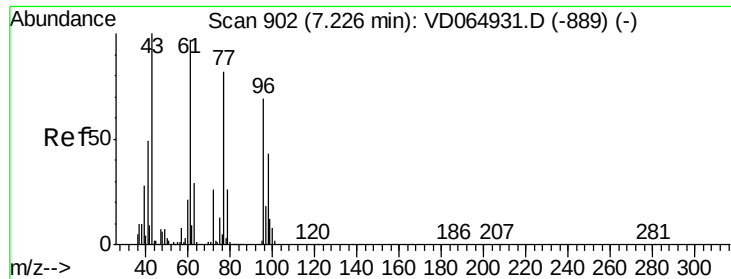
100000

50000

0

Time--> 6.10 6.20 6.30 6.40





#25

2-Butanone

Concen: 226.912 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.01 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 301870

Ion Ratio Lower Upper

43 100

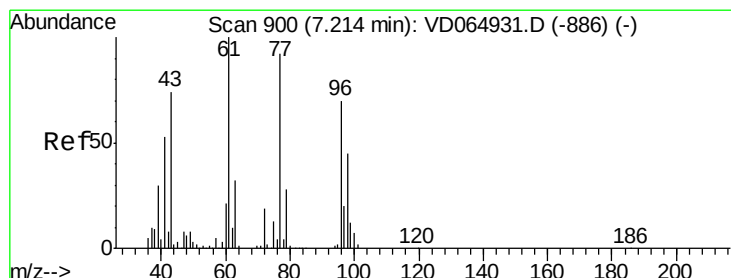
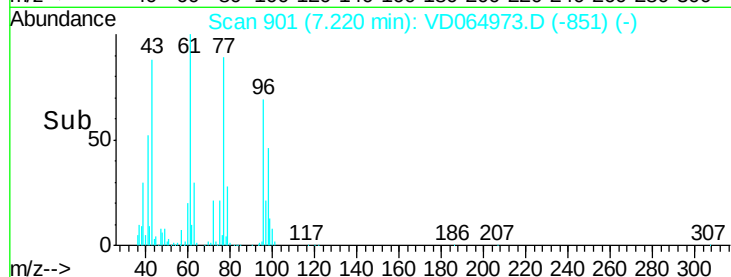
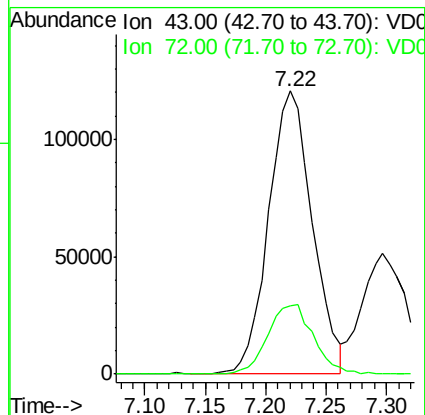
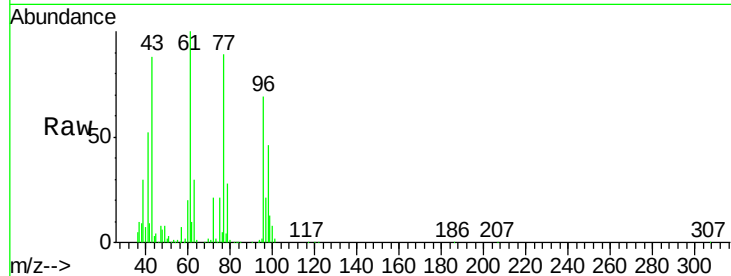
72 24.3 20.6 31.0

Manual Integrations

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1/29/2020 12:55:50 PM



#26

2,2-Dichloropropane

Concen: 53.192 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.00 min

Lab File: VD064973.D

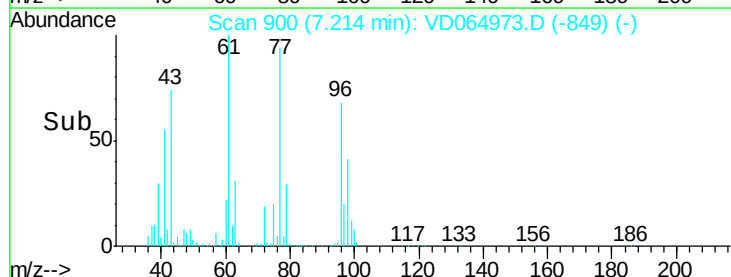
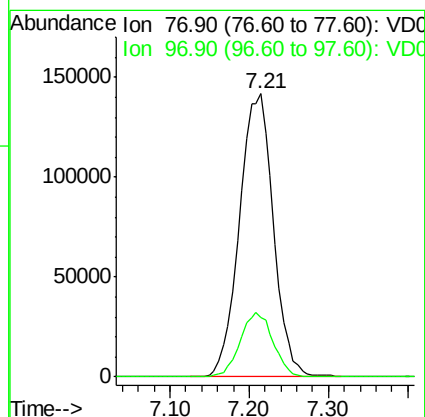
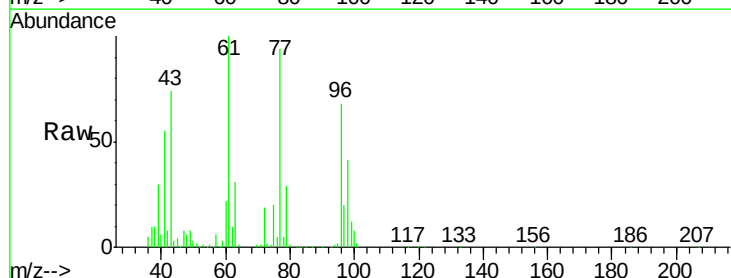
Acq: 28 Jan 2020 10:50

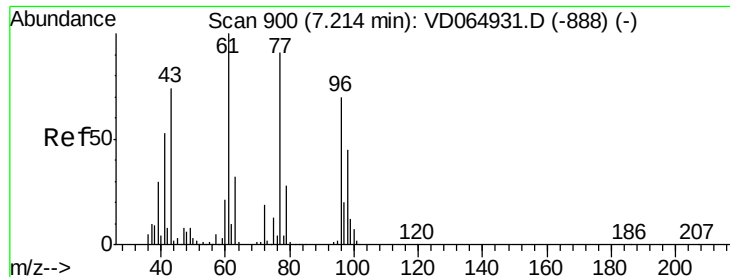
Tgt Ion: 77 Resp: 420758

Ion Ratio Lower Upper

77 100

97 22.1 11.4 34.2





#27

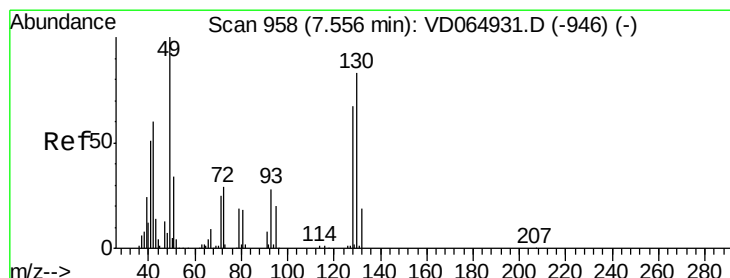
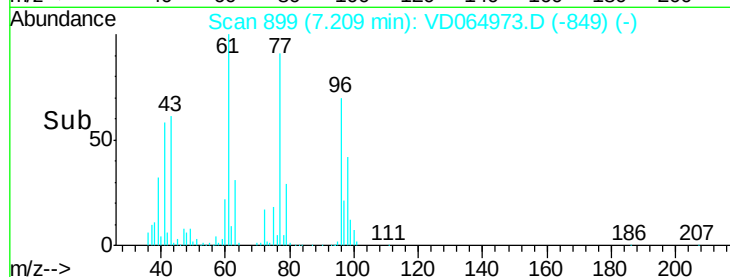
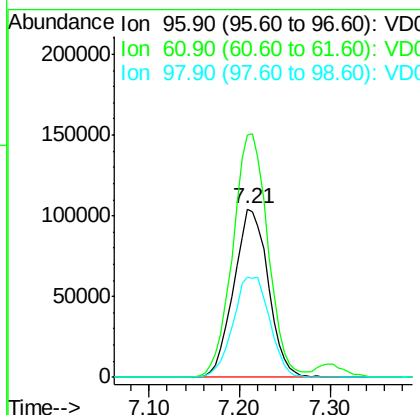
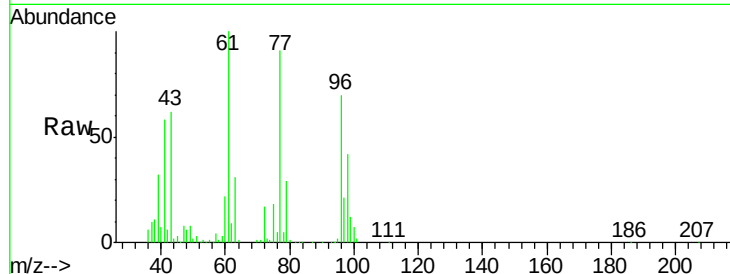
cis-1,2-Dichloroethene
Concen: 50.381 ug/l
RT: 7.21 min Scan# 899
Delta R.T. -0.01 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	276849		
61	146.8	0.0	292.8	
98	63.2	0.0	130.0	

Manual Integrations
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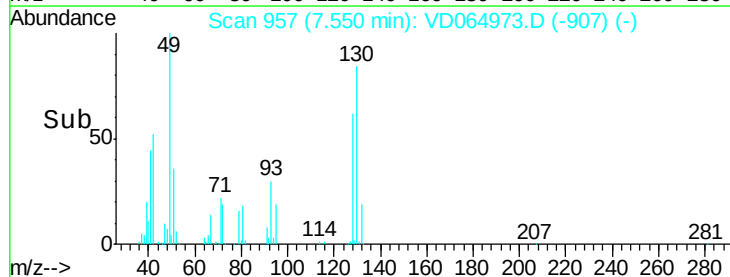
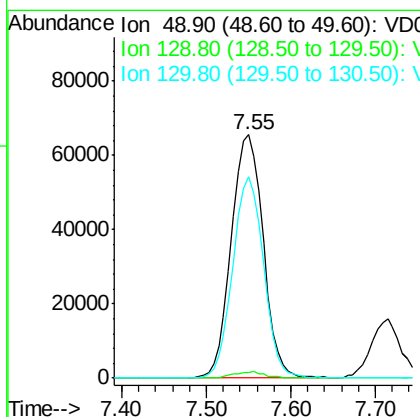
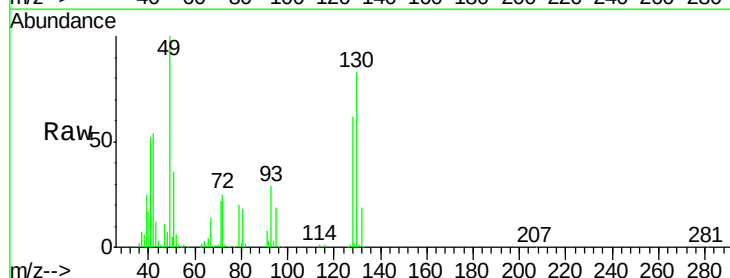
MMDadoda
1/29/2020 12:55:50 PM

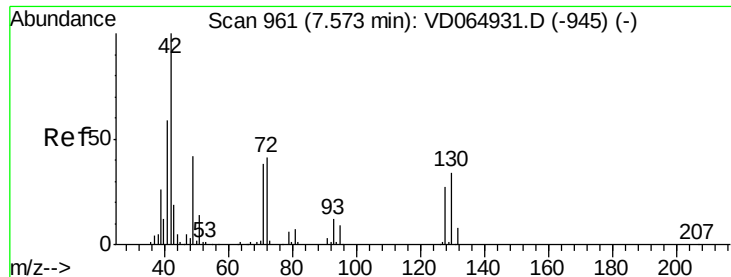


#28

Bromochloromethane
Concen: 49.275 ug/l
RT: 7.55 min Scan# 957
Delta R.T. -0.01 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	171857		
129	2.4	0.0	4.4	
130	79.8	63.8	95.8	





#29

Tetrahydrofuran

Concen: 218.465 ug/l

RT: 7.57 min Scan# 960

Delta R.T. -0.01 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Instrument :

MSVOA_D

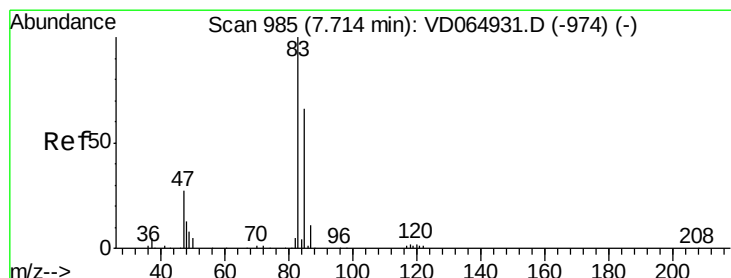
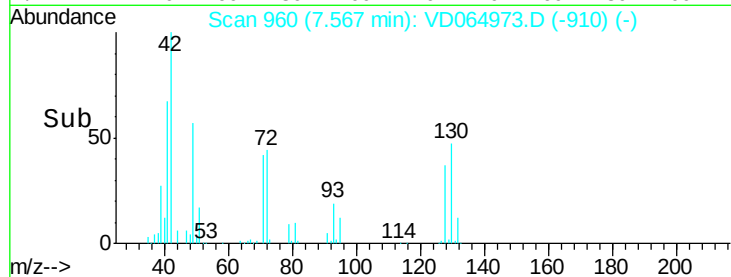
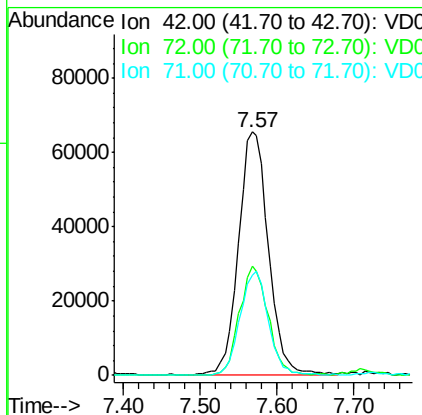
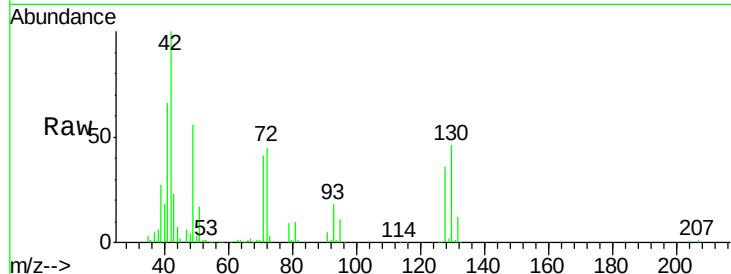
ClientSampleId :

VSTDCCC050

Tot Ion:	42	Resp:	179321
Ion	Ratio	Lower	Upper
42	100		
72	42.6	34.0	51.0
71	40.3	31.5	47.3

Manual Integrations
APPROVED

MMDadoda
1/29/2020 12:55:50 PM



#30

Chloroform

Concen: 49.415 ug/l

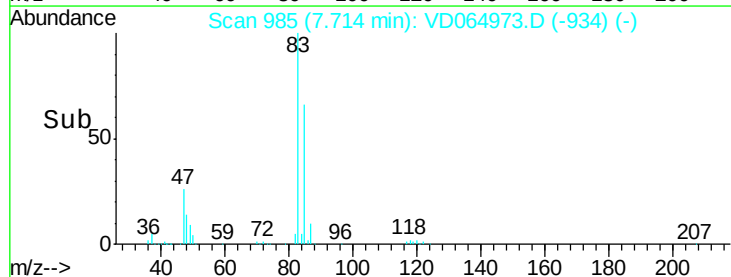
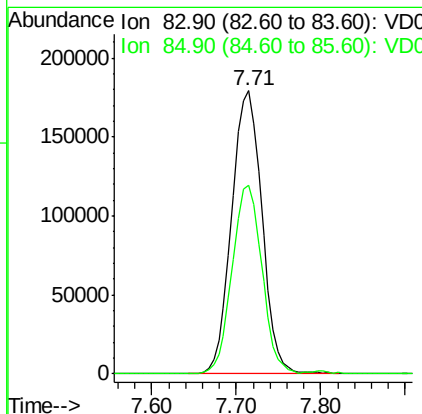
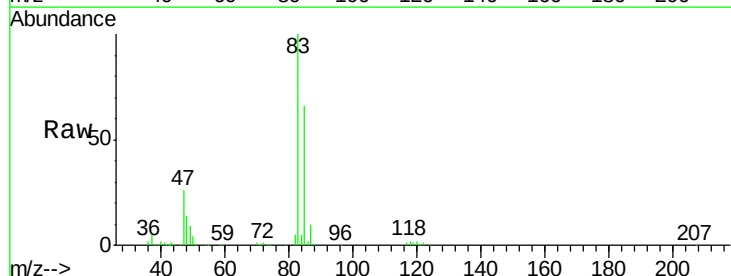
RT: 7.71 min Scan# 985

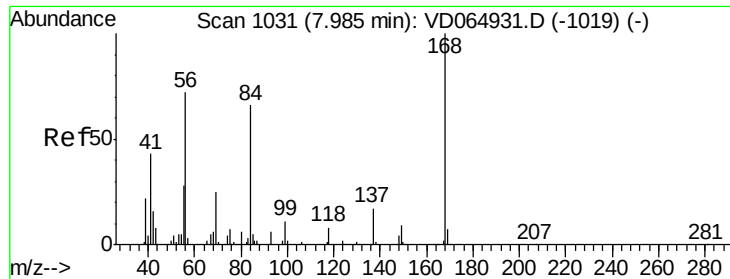
Delta R.T. 0.00 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Tgt Ion:	83	Resp:	445471
Ion	Ratio	Lower	Upper
83	100		
85	66.5	52.4	78.6





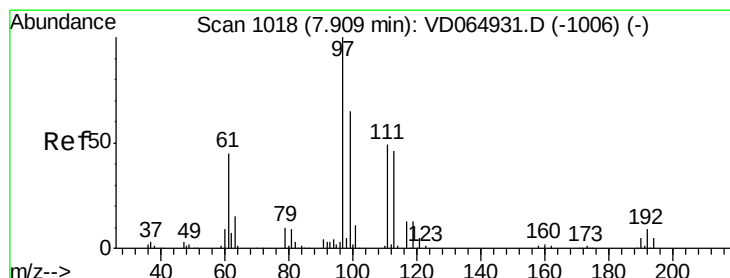
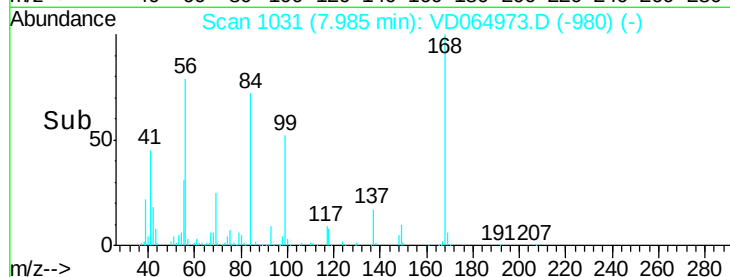
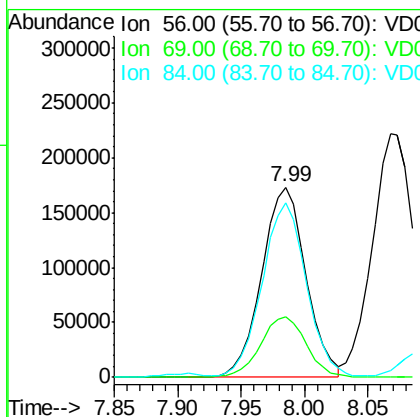
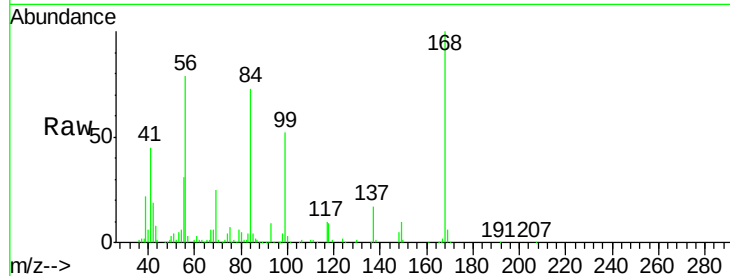
#31
Cyclohexane
Concen: 48.928 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.2	27.9	41.9
84	89.7	72.8	109.2

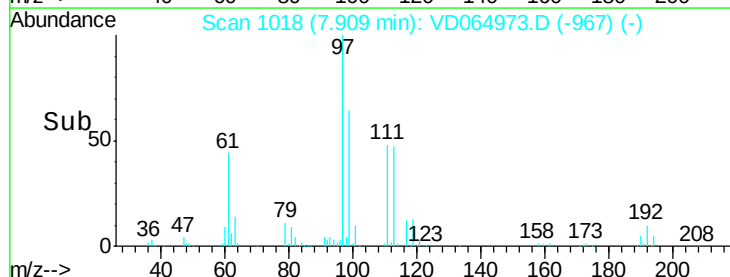
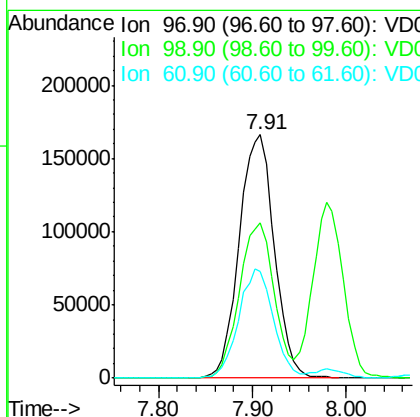
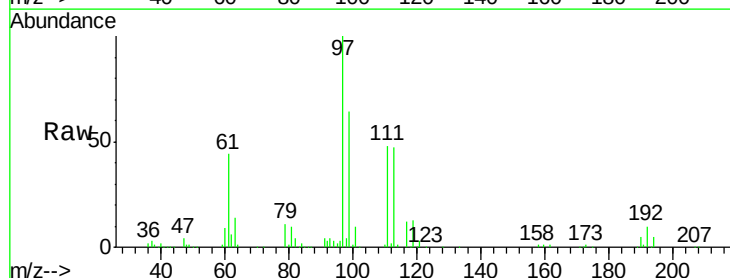
Manual Integrations
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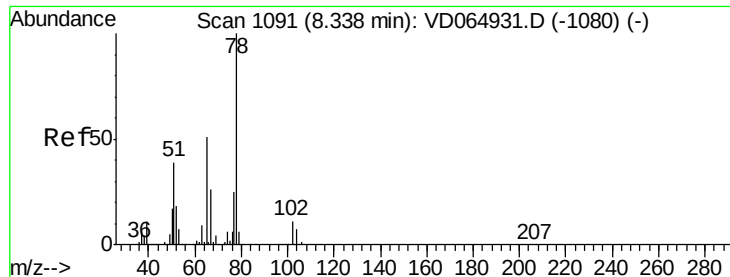
MMDadoda
1/29/2020 12:55:50 PM



#32
1,1,1-Trichloroethane
Concen: 51.208 ug/l
RT: 7.91 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.7	50.6	76.0
61	44.3	35.7	53.5





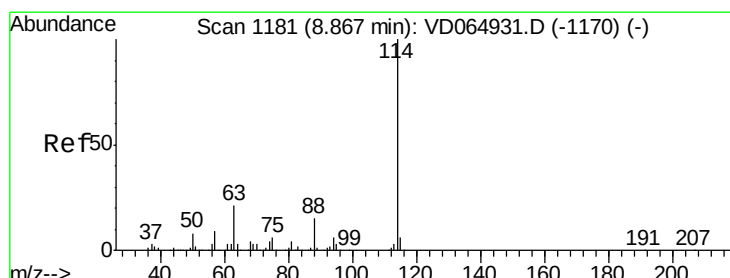
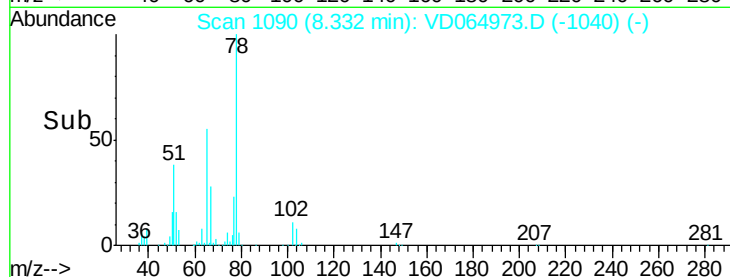
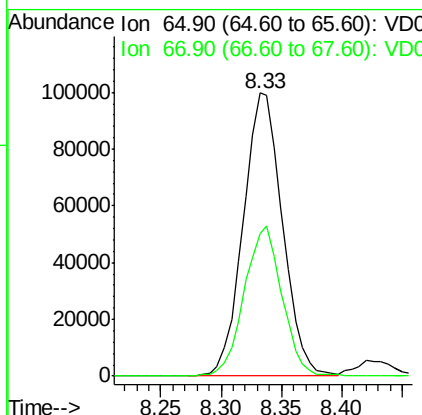
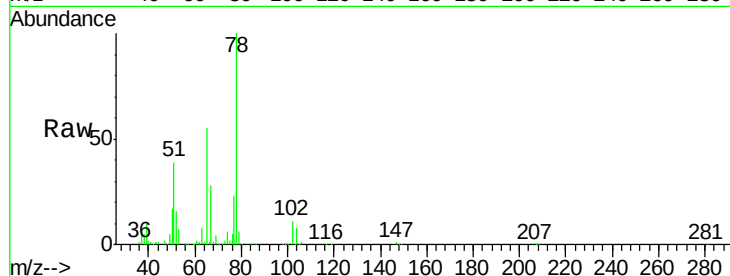
#33
 1,2-Dichloroethane-d4
 Concen: 45.816 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.01 min
 Lab File: VD064973.D
 Acq: 28 Jan 2020 10:50

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
65	100		
67	50.9	0.0	103.6

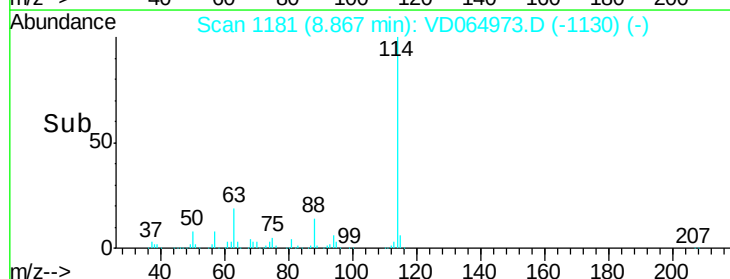
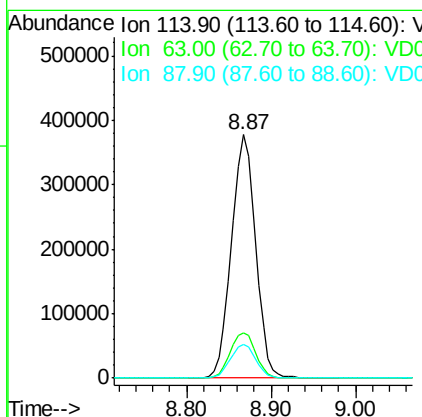
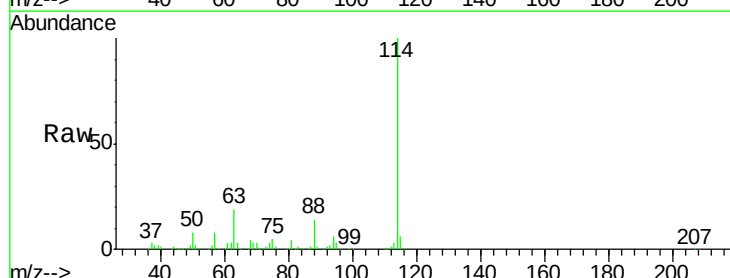
Manual Integrations
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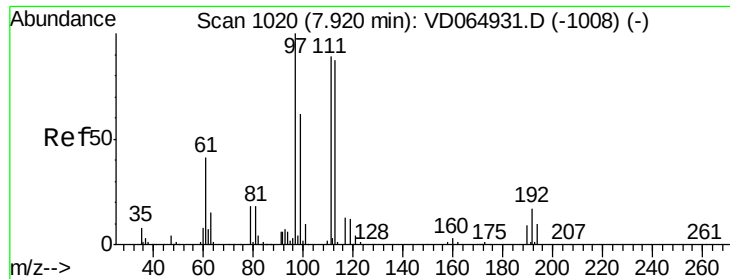
MMDadoda
 1/29/2020 12:55:50 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064973.D
 Acq: 28 Jan 2020 10:50

Tgt Ion	Ratio	Lower	Upper
114	100		
63	18.7	0.0	42.0
88	13.6	0.0	29.4





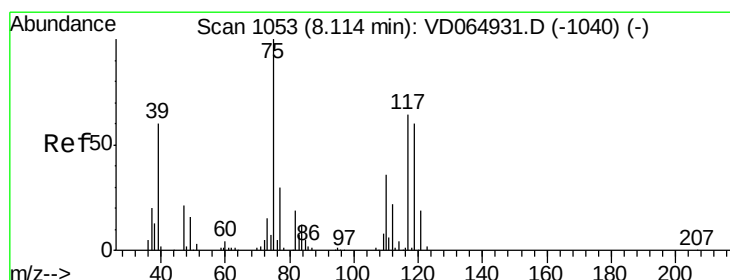
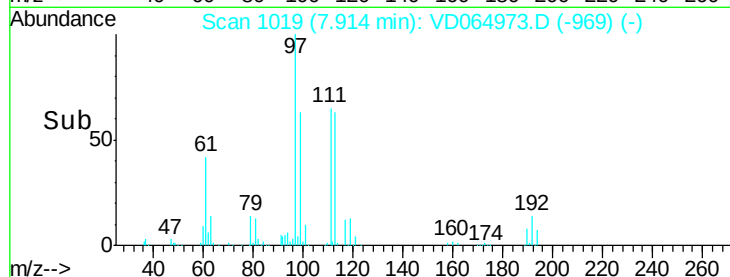
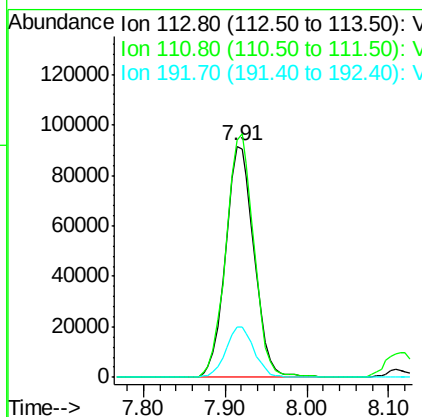
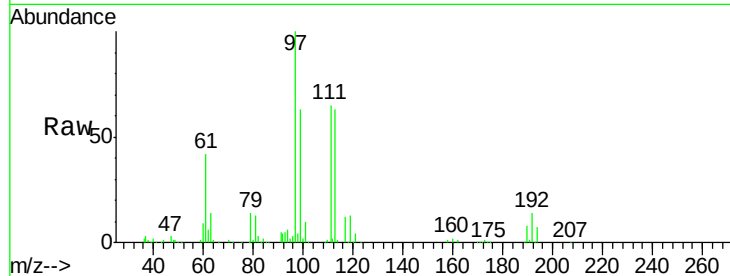
#35
Dibromofluoromethane
Concen: 47.675 ug/l
RT: 7.91 min Scan# 1019
Delta R.T. -0.01 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	221921		
111	103.3	82.4	123.6	
192	21.7	16.9	25.3	

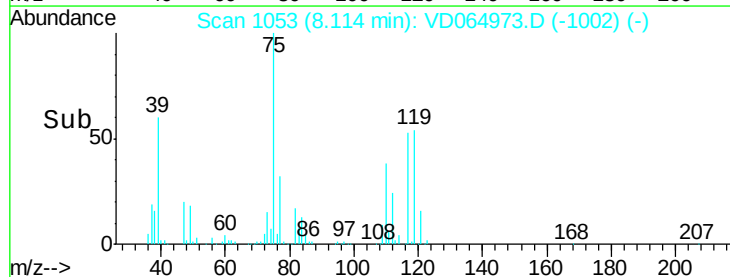
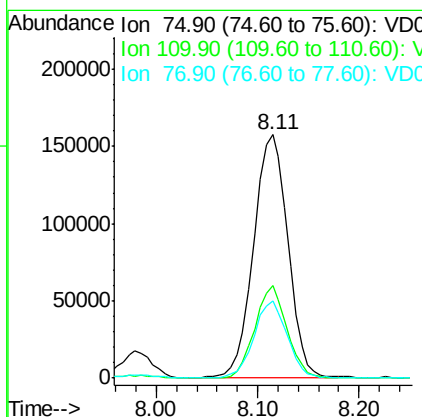
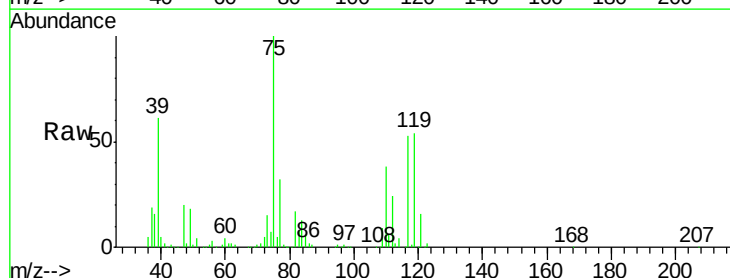
Manual Integrations
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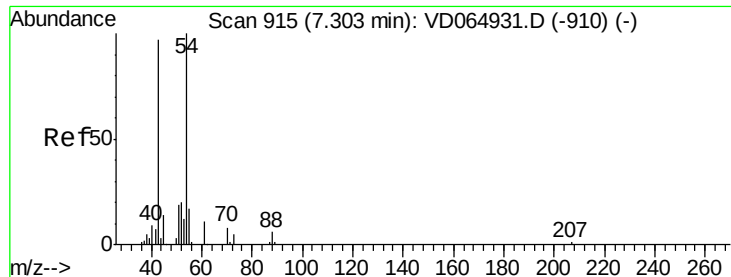
MMDadoda
1/29/2020 12:55:50 PM



#36
1,1-Dichloropropene
Concen: 51.780 ug/l
RT: 8.11 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	369850		
110	35.6	17.3	52.0	
77	31.0	24.7	37.1	





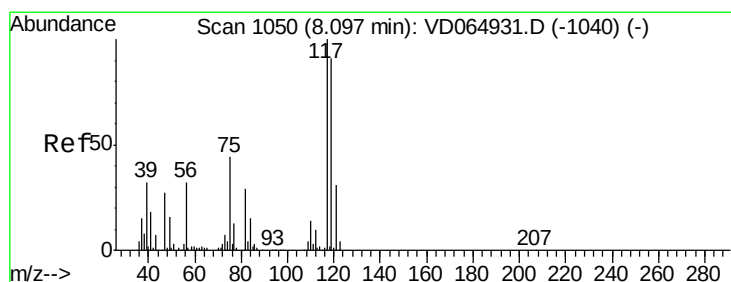
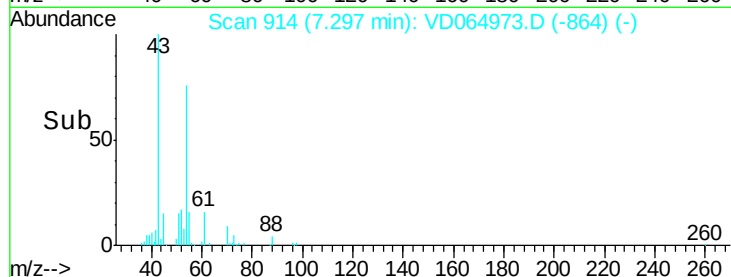
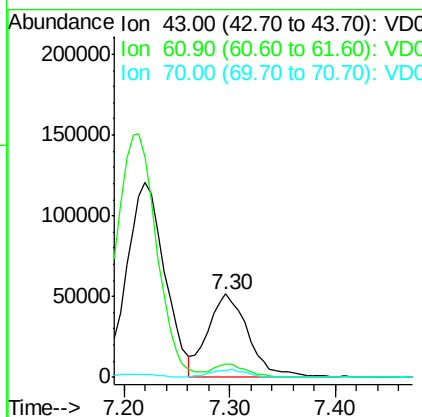
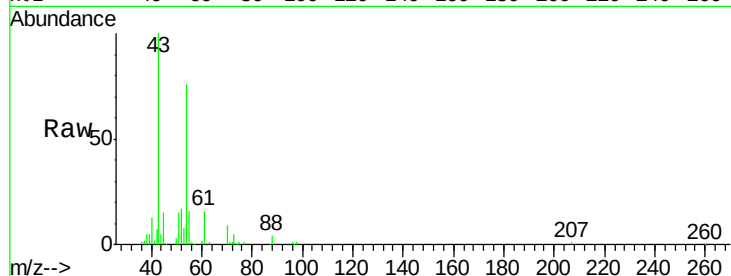
#37
Ethyl Acetate
Concen: 45.910 ug/l
RT: 7.30 min Scan# 914
Delta R.T. -0.01 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.0	11.0	16.4
70	8.9	7.5	11.3

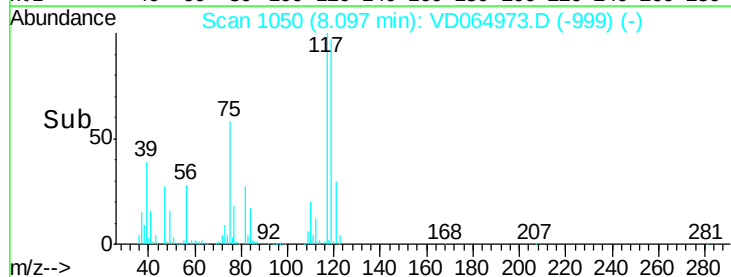
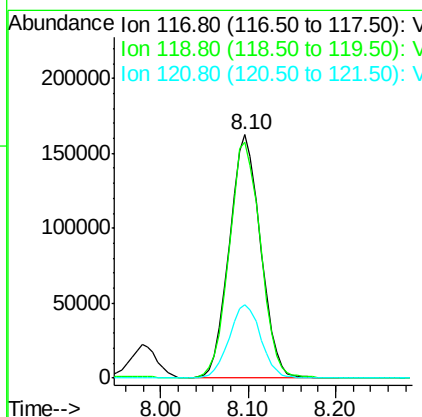
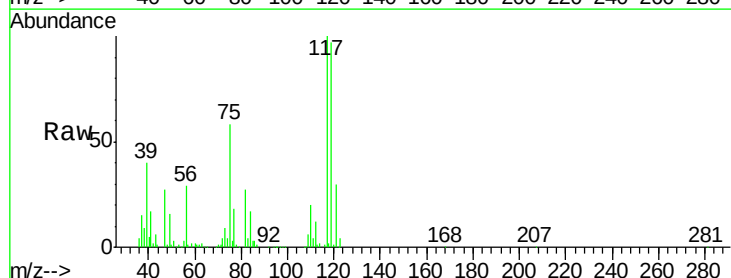
Manual Integrations
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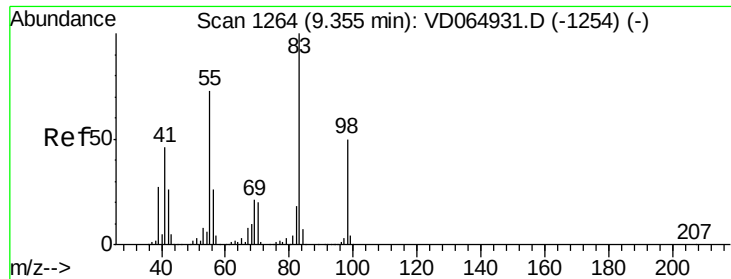
MMDadoda
1/29/2020 12:55:50 PM



#38
Carbon Tetrachloride
Concen: 52.012 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.2	73.2	109.8
121	30.4	24.4	36.6





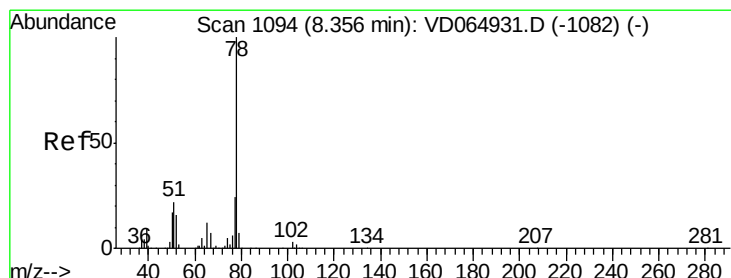
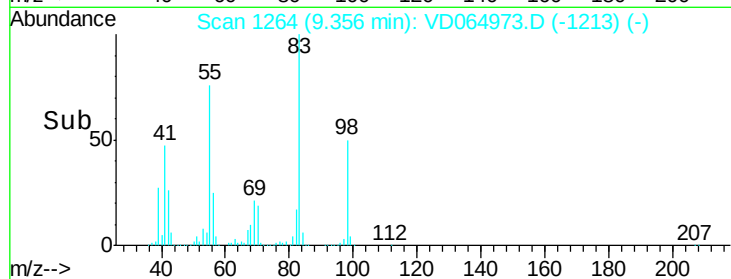
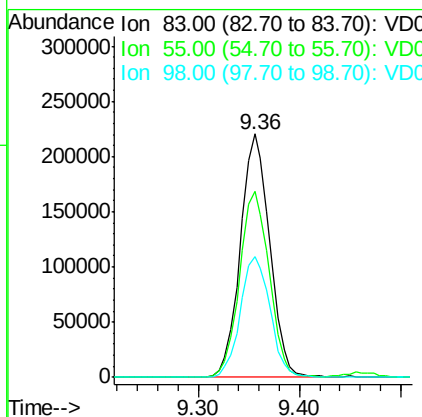
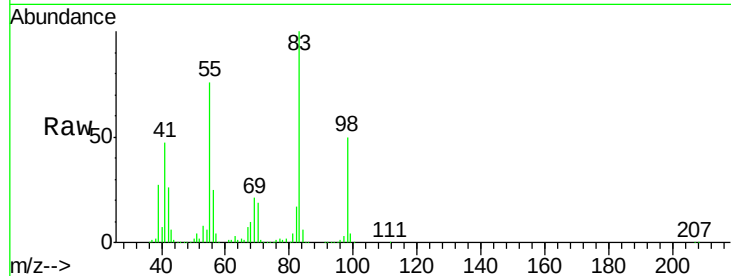
#39
Methylvlcyclohexane
Concen: 53.233 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	444531		
55	76.2		58.7	88.1
98	49.6		40.2	60.2

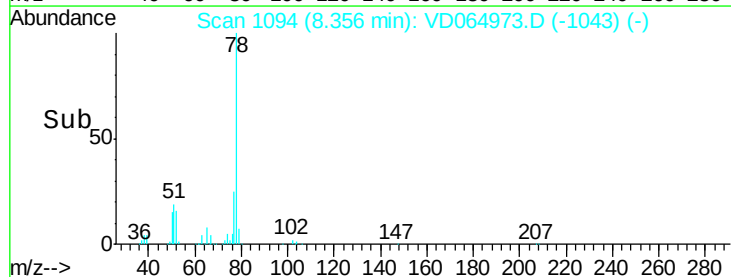
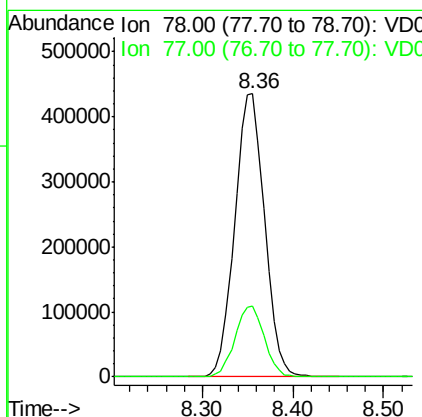
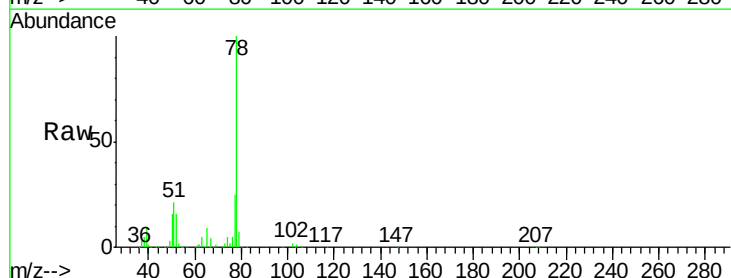
Manual Integrations
APPROVED

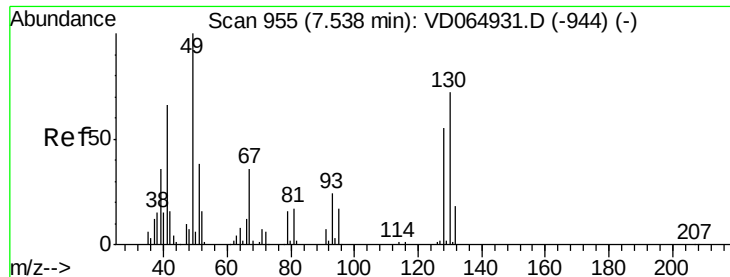
MMDadoda
1/29/2020 12:55:50 PM



#40
Benzene
Concen: 50.832 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	999976		
77	25.2		19.2	28.8





#41

Methacrylonitrile

Concen: 49.553 ug/l

RT: 7.53 min Scan# 953

Delta R.T. -0.01 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 41 Resp: 78757

Ion Ratio Lower Upper

41 100

39 63.4 49.3 73.9

67 69.5 51.0 76.6

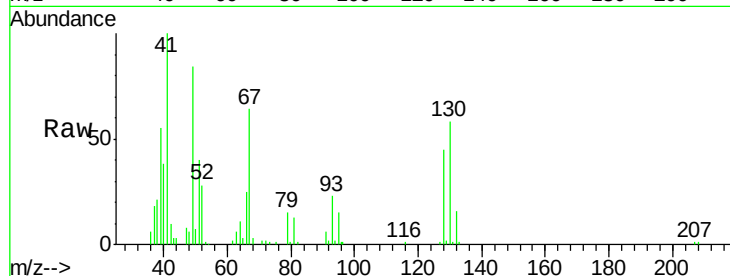
52 30.4 22.3 33.5

Manual Integrations

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MMDadoda

1/29/2020 12:55:50 PM

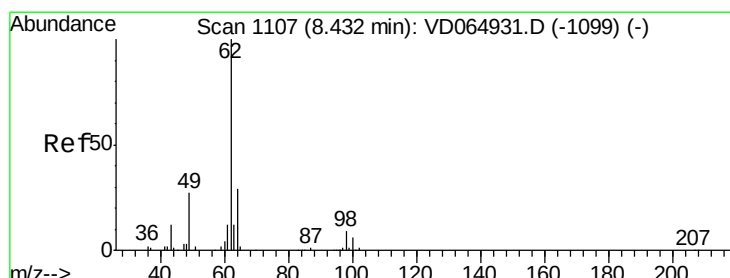
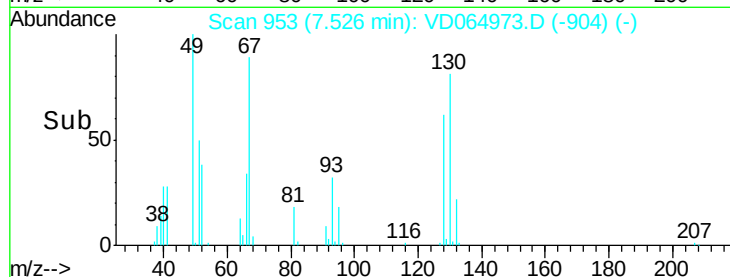
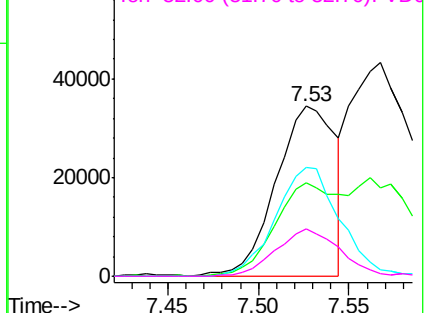


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 47.137 ug/l

RT: 8.43 min Scan# 1106

Delta R.T. -0.01 min

Lab File: VD064973.D

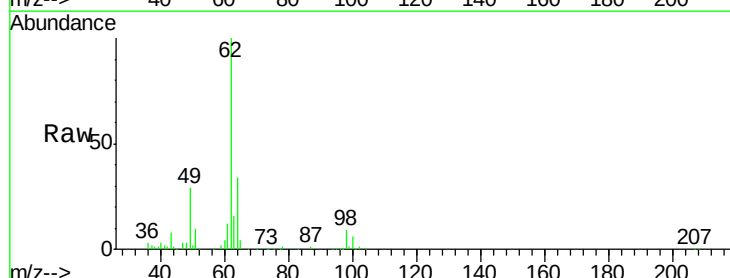
Acq: 28 Jan 2020 10:50

Tgt Ion: 62 Resp: 276222

Ion Ratio Lower Upper

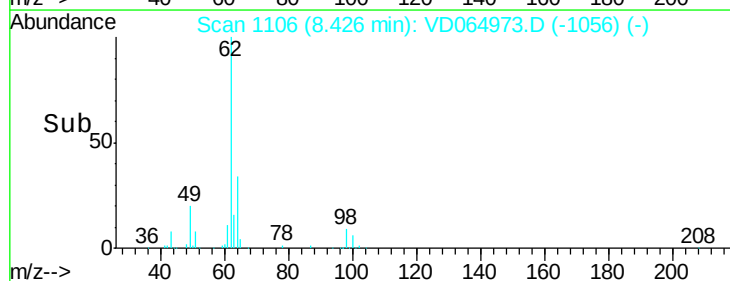
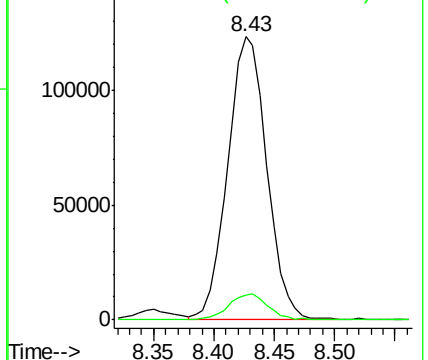
62 100

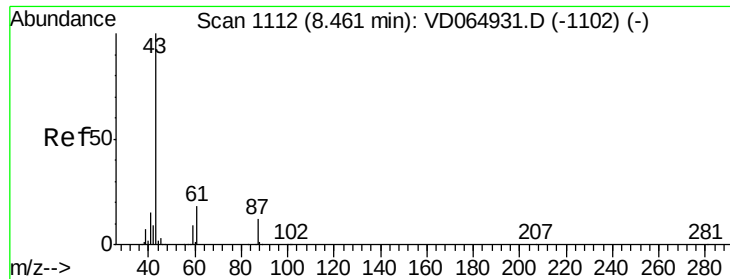
98 9.2 0.0 17.8



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 97.90 (97.60 to 98.60): VDC





#43

Isopropyl Acetate

Concen: 46.012 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Instrument :

MSVOA_D

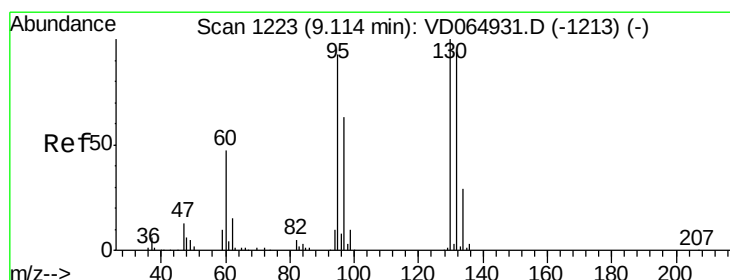
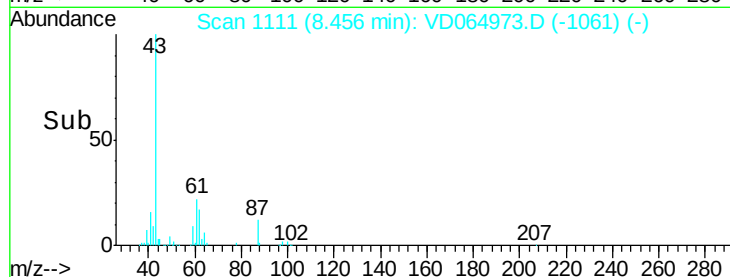
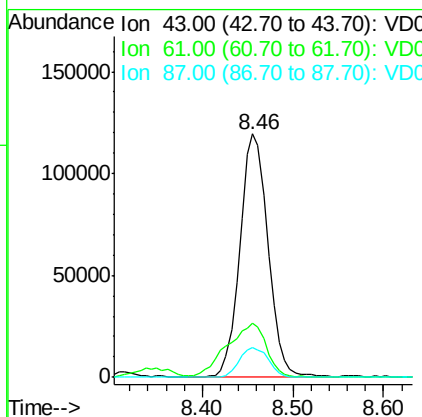
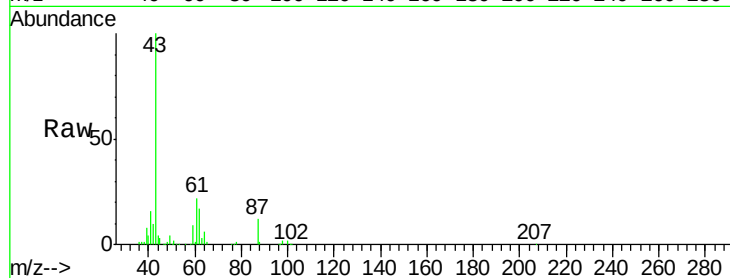
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	257866
Ion	Ratio	Lower	Upper
43	100		
61	30.9	23.8	35.6
87	12.9	10.3	15.5

Manual Integrations
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1/29/2020 12:55:50 PM



#44

Trichloroethene

Concen: 51.525 ug/l

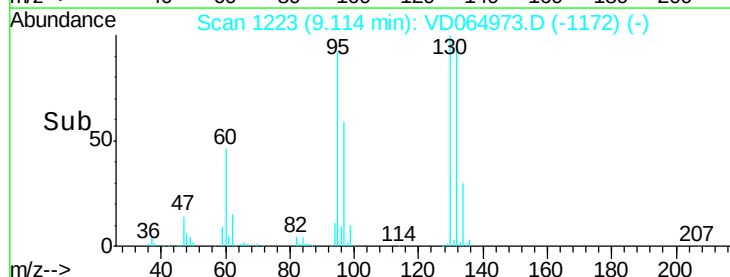
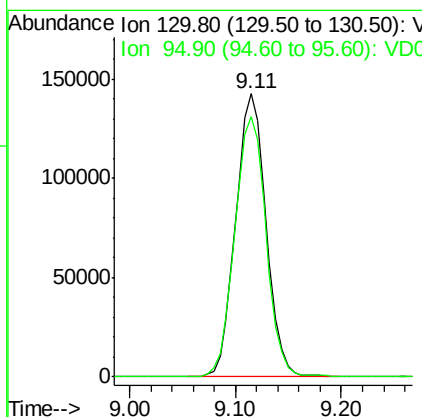
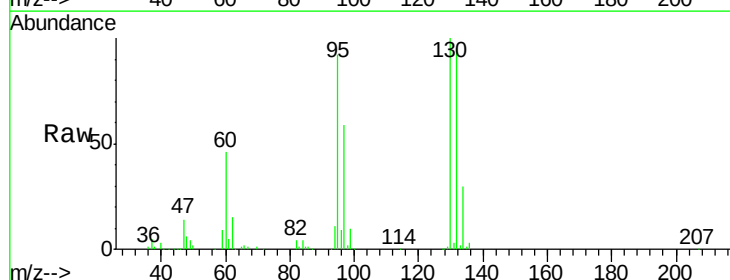
RT: 9.11 min Scan# 1223

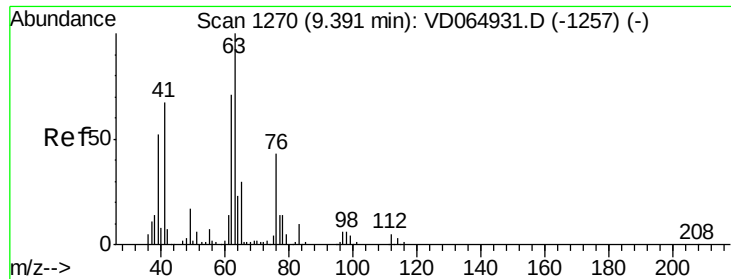
Delta R.T. 0.00 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Tgt Ion:	130	Resp:	283677
Ion	Ratio	Lower	Upper
130	100		
95	92.1	0.0	185.8





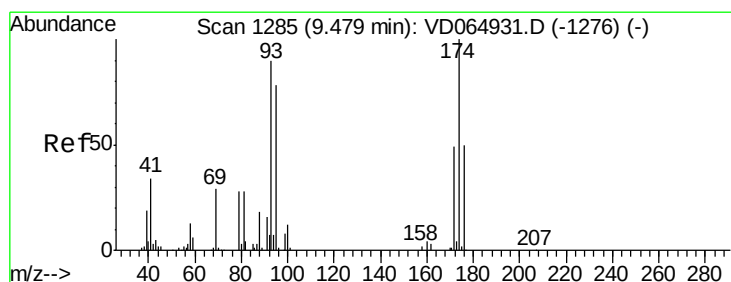
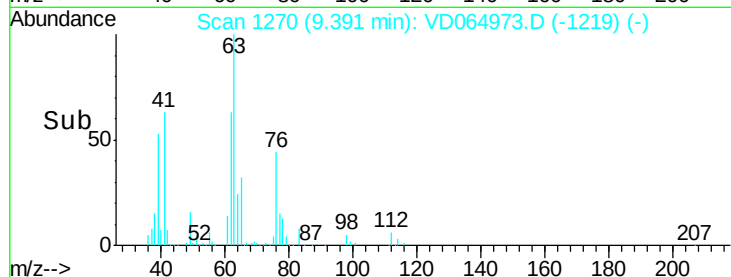
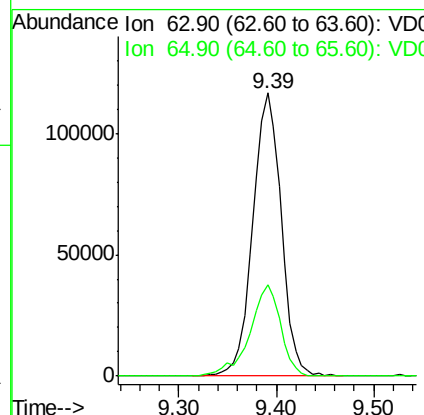
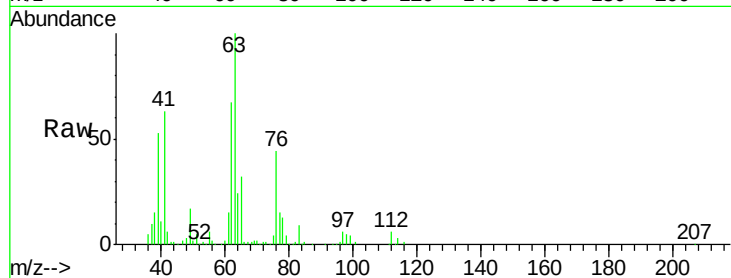
#45
 1,2-Dichloropropane
 Concen: 49.849 ug/l
 RT: 9.39 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VD064973.D
 Acq: 28 Jan 2020 10:50

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.2	24.3	36.5

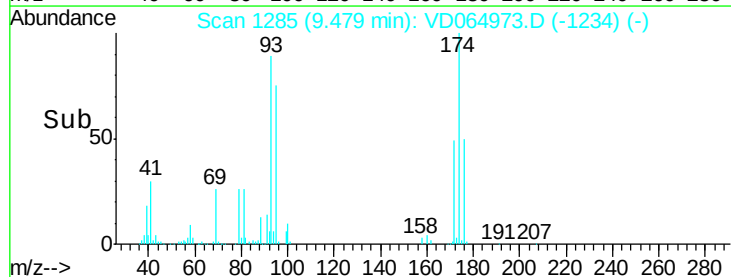
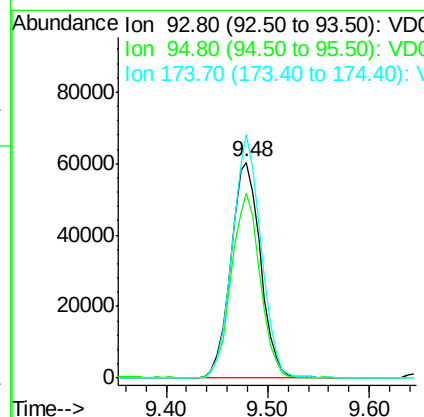
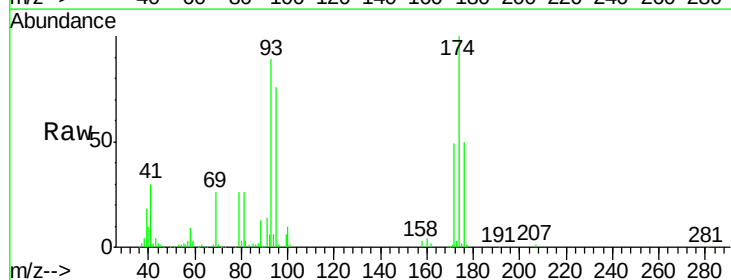
Manual Integrations
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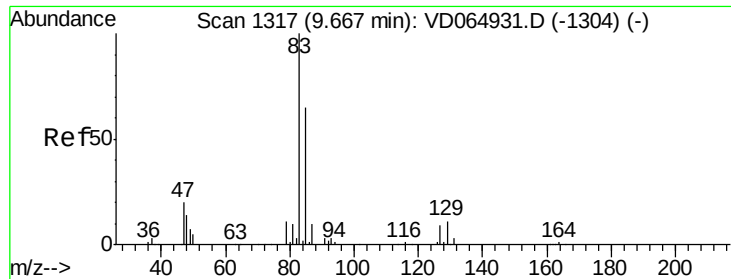
MMDadoda
 1/29/2020 12:55:50 PM



#46
 Dibromomethane
 Concen: 47.096 ug/l
 RT: 9.48 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: VD064973.D
 Acq: 28 Jan 2020 10:50

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.9	67.5	101.3
174	108.5	88.4	132.6





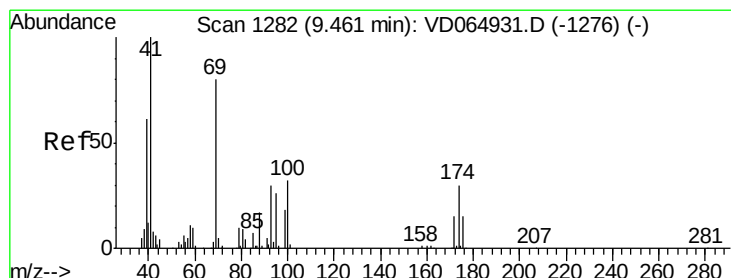
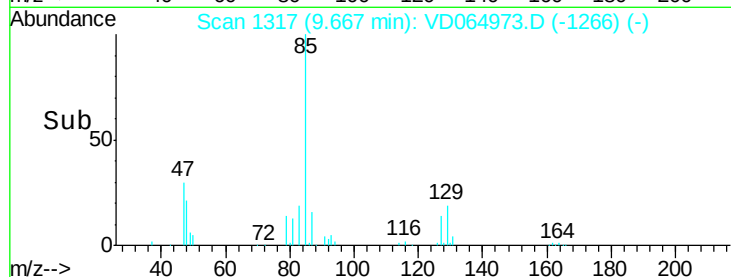
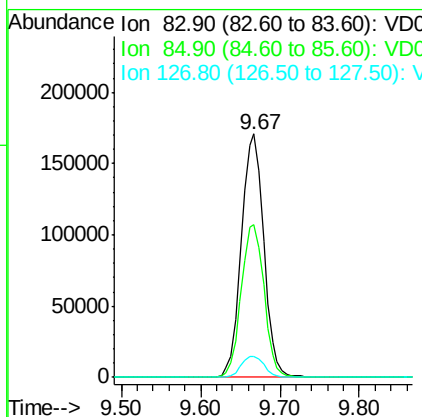
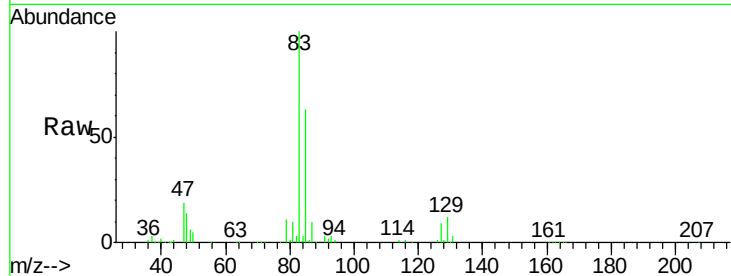
#47
Bromodichloromethane
Concen: 49.502 ug/l
RT: 9.67 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	335371		
85	62.8	52.0	78.0	
127	8.6	7.3	10.9	

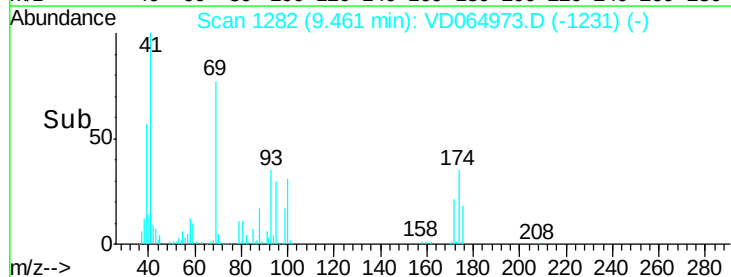
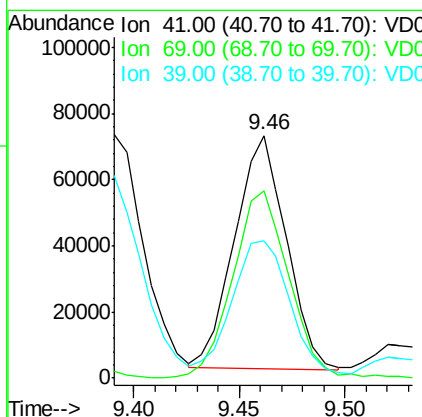
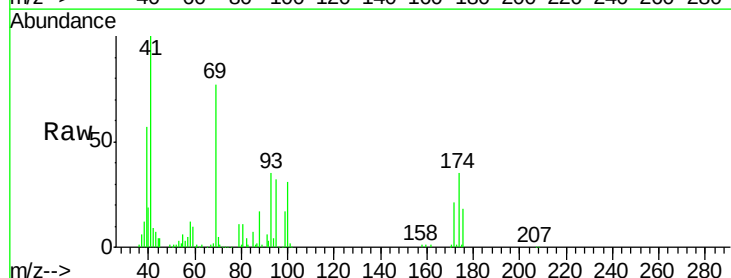
Manual Integrations
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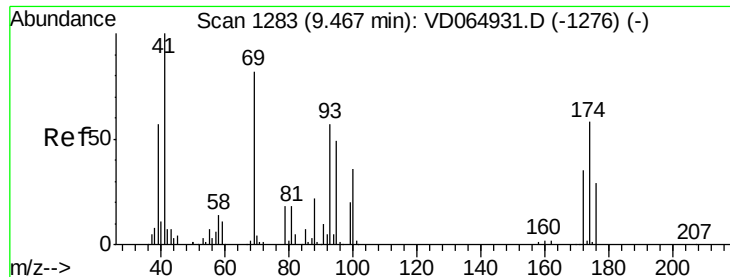
MMDadoda
1/29/2020 12:55:50 PM



#48
Methyl methacrylate
Concen: 46.347 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	119529		
69	87.8	65.8	98.8	
39	62.4	49.4	74.0	





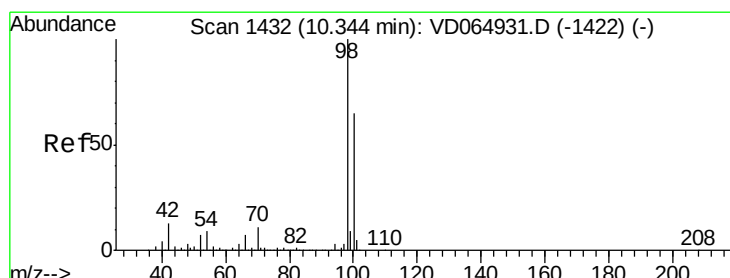
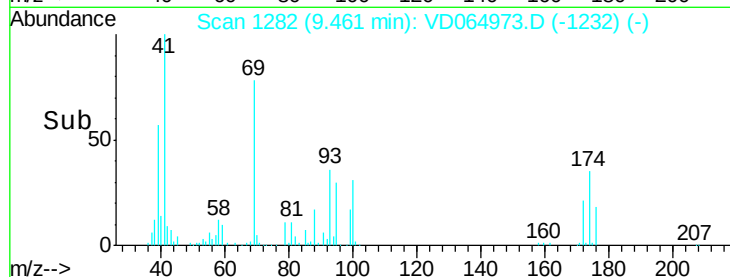
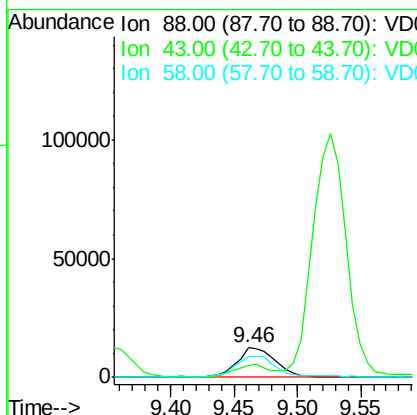
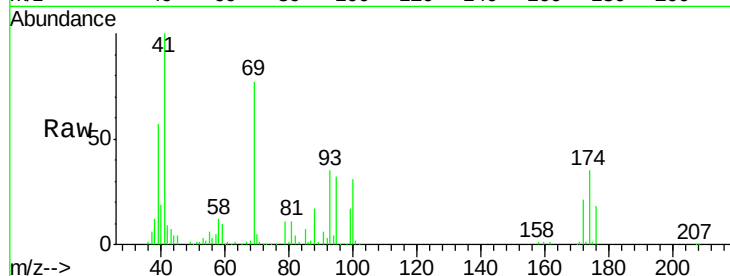
#49
1,4-Dioxane
Concen: 890.862 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. -0.01 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	32.8	26.2	39.4
58	78.4	50.3	75.5

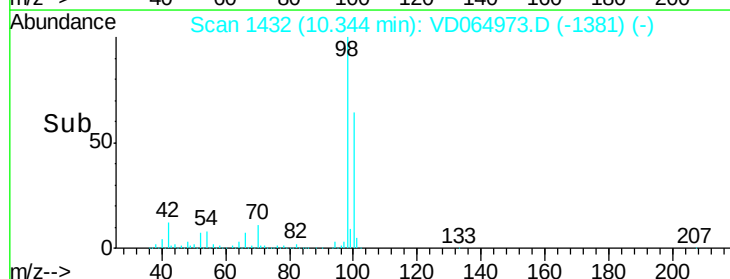
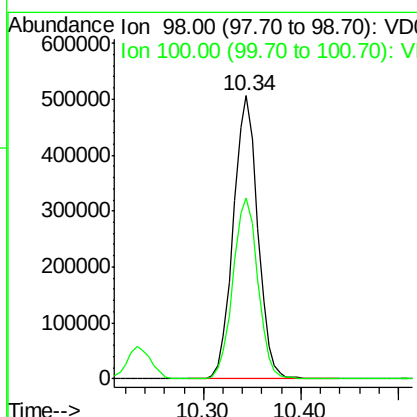
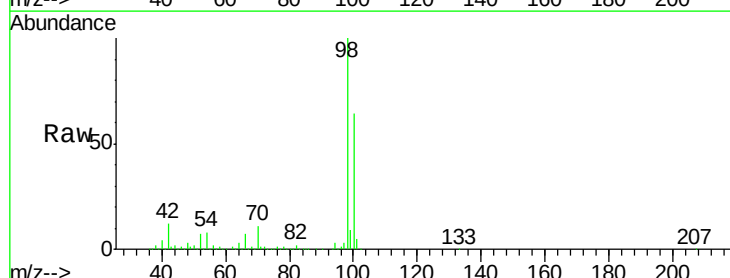
Manual Integrations
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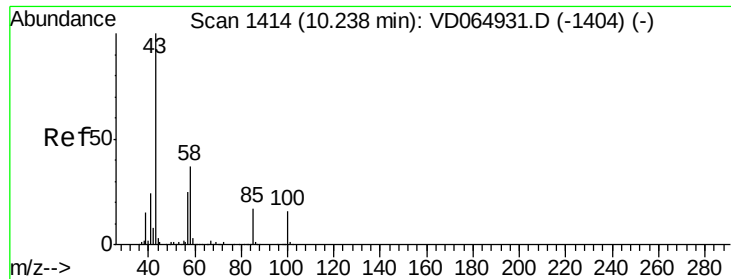
MMDadoda
1/29/2020 12:55:50 PM



#50
Toluene-d8
Concen: 49.166 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.3	78.5





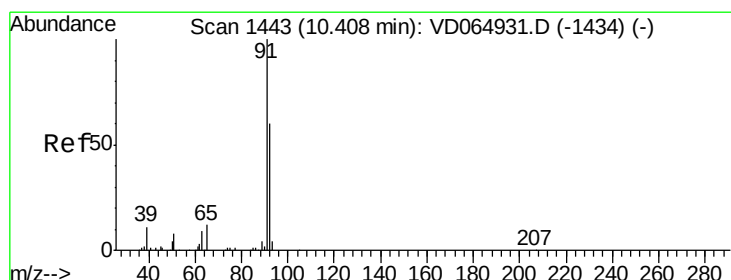
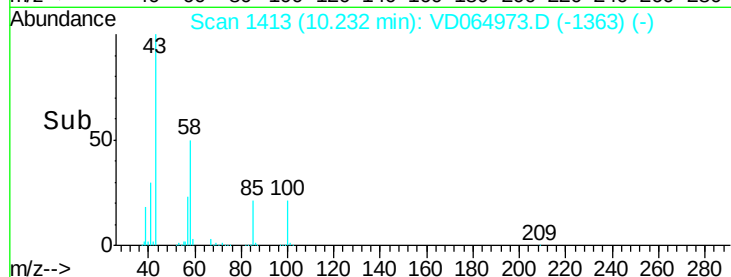
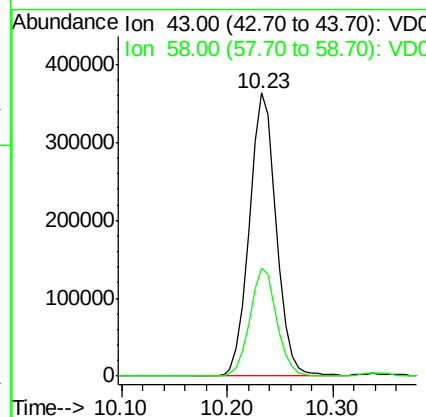
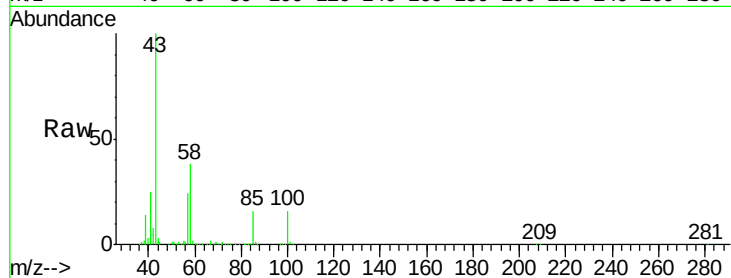
#51
4-Methyl-2-Pentanone
Concen: 230.318 ug/l
RT: 10.23 min Scan# 1413
Delta R.T. -0.01 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 645852
Ion Ratio Lower Upper
43 100
58 38.0 30.4 45.6

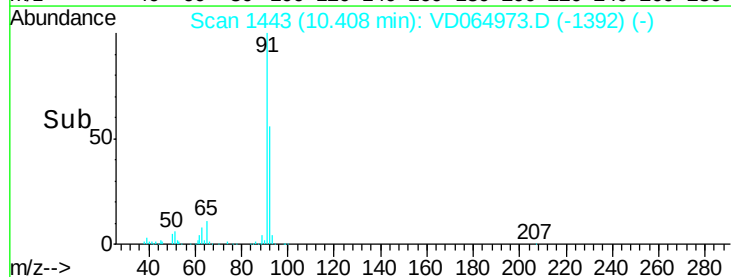
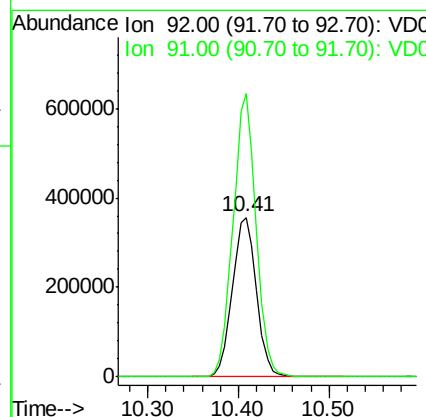
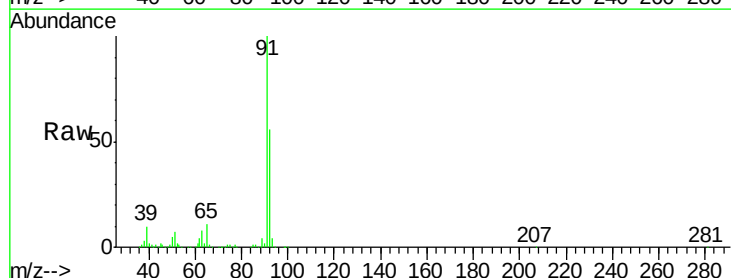
Manual Integrations
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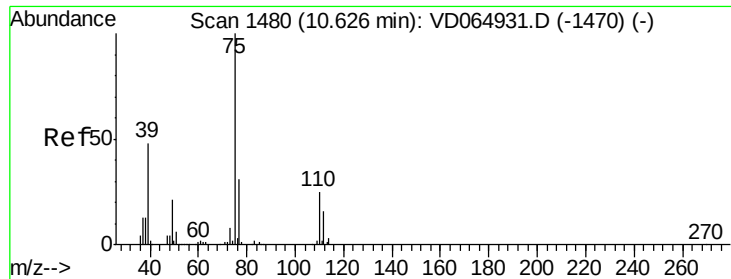
MMDadoda
1/29/2020 12:55:50 PM



#52
Toluene
Concen: 51.667 ug/l
RT: 10.41 min Scan# 1443
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Tgt Ion: 92 Resp: 655292
Ion Ratio Lower Upper
92 100
91 171.0 136.8 205.2





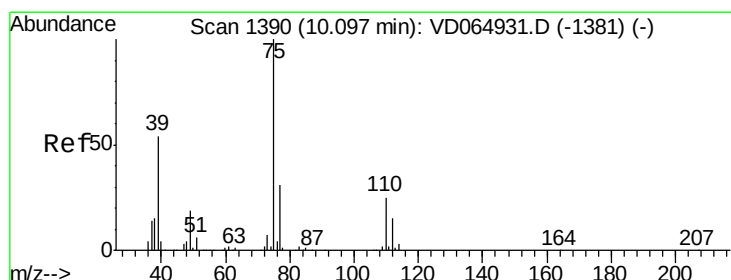
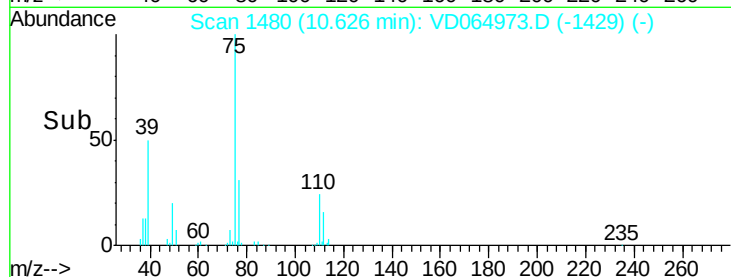
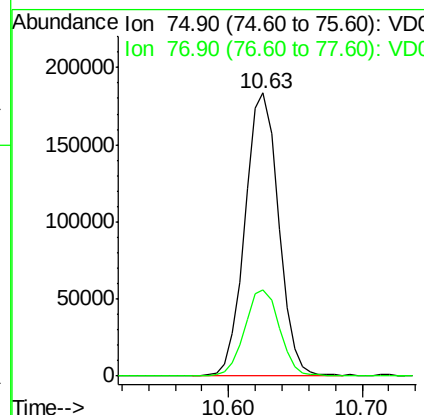
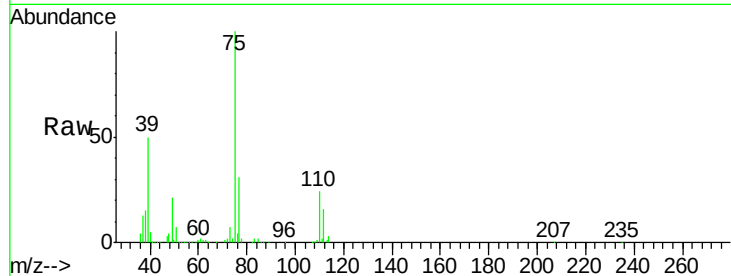
#53
t-1,3-Dichloropropene
Concen: 49.527 ug/l
RT: 10.63 min Scan# 1480
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	75	Resp	319620
Ion Ratio	Lower	Upper	
75	100		
77	30.6	25.0	37.6

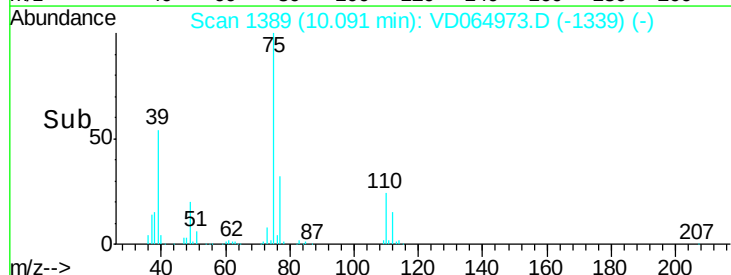
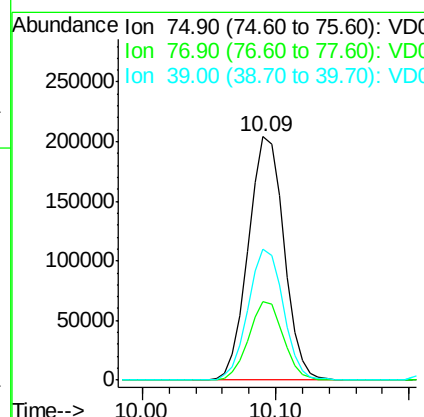
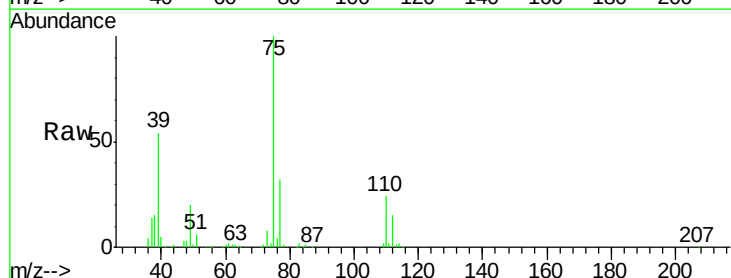
Manual Integrations
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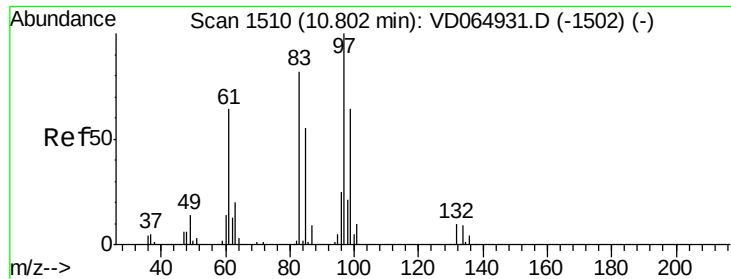
MMDadoda
1/29/2020 12:55:50 PM



#54
cis-1,3-Dichloropropene
Concen: 49.812 ug/l
RT: 10.09 min Scan# 1389
Delta R.T. -0.01 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Tgt Ion	75	Resp	376372
Ion Ratio	Lower	Upper	
75	100		
77	32.4	25.1	37.7
39	54.0	43.0	64.6





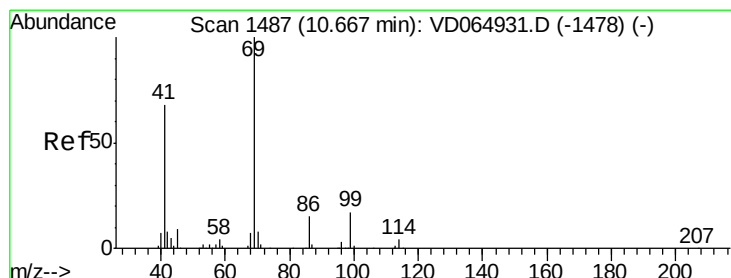
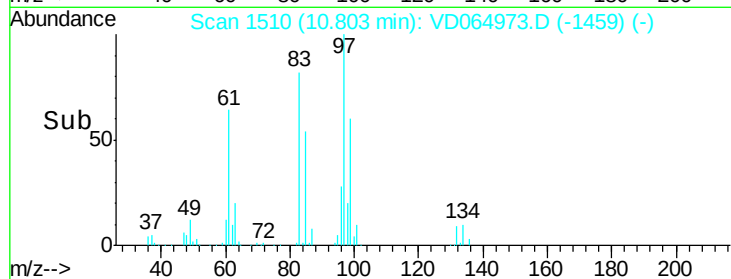
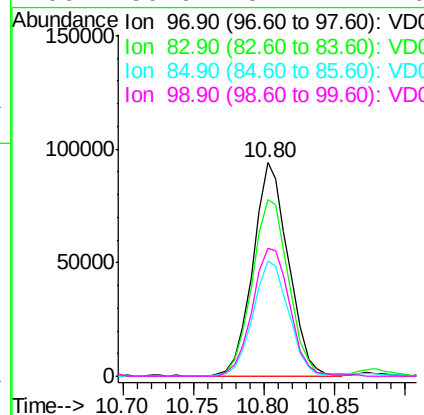
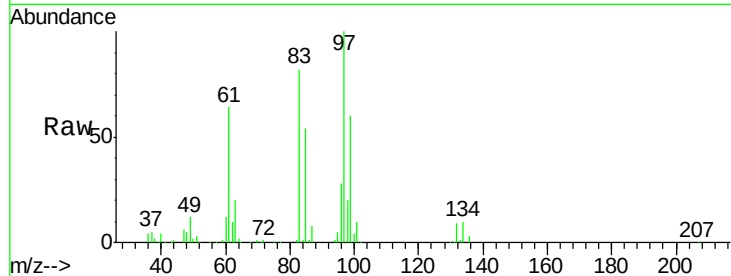
#55
 1,1,2-Trichloroethane
 Concen: 47.271 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. 0.00 min
 Lab File: VD064973.D
 Acq: 28 Jan 2020 10:50

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	97	Resp	165784
Ion Ratio	Lower	Upper	
97	100		
83	82.4	66.0	99.0
85	53.8	44.4	66.6
99	59.9	51.4	77.0

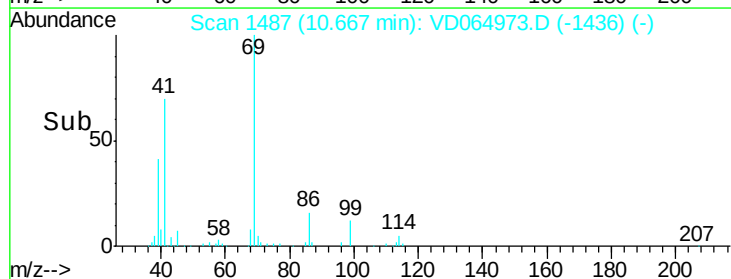
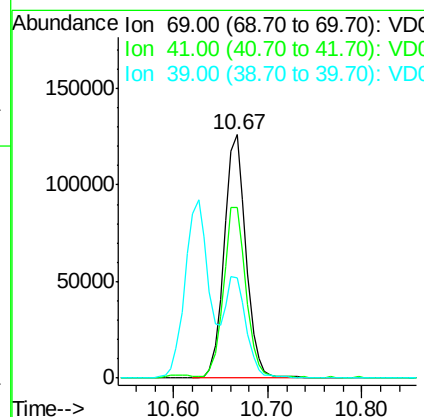
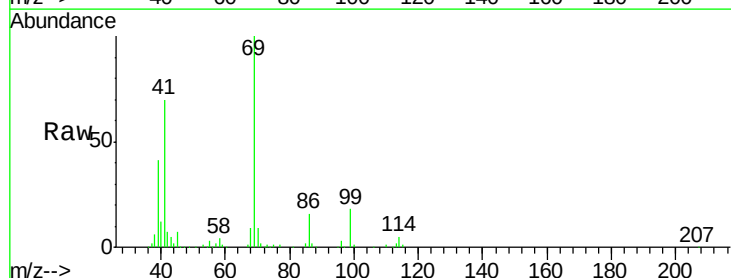
Manual Integrations
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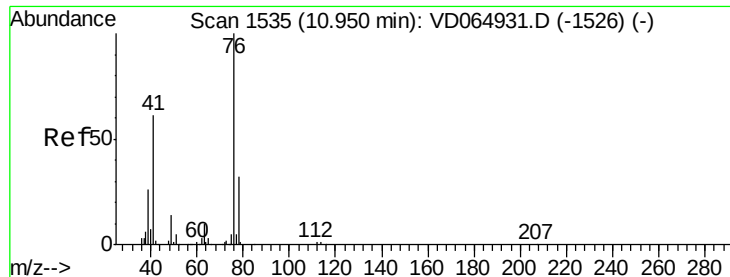
MMDadoda
 1/29/2020 12:55:50 PM



#56
 Ethyl methacrylate
 Concen: 48.759 ug/l
 RT: 10.67 min Scan# 1487
 Delta R.T. 0.00 min
 Lab File: VD064973.D
 Acq: 28 Jan 2020 10:50

Tgt Ion	69	Resp	204492
Ion Ratio	Lower	Upper	
69	100		
41	71.9	56.4	84.6
39	38.8	30.6	46.0





#57

1,3-Dichloropropane

Concen: 48.033 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. 0.00 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 288932

Ion Ratio Lower Upper

76 100

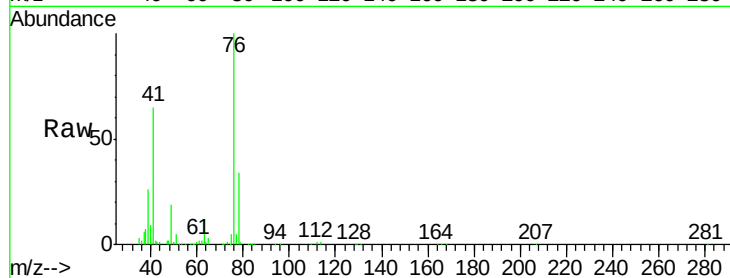
78 32.2 25.7 38.5

Manual Integrations

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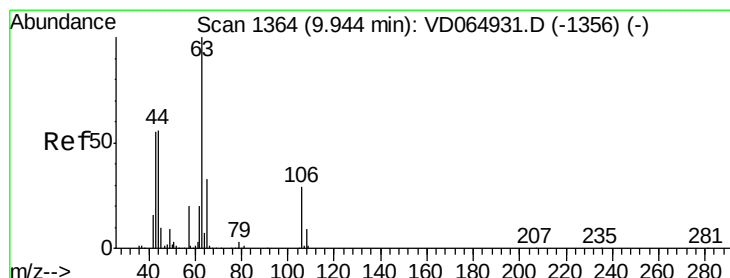
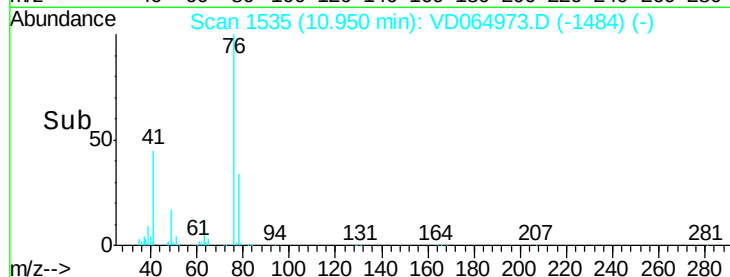
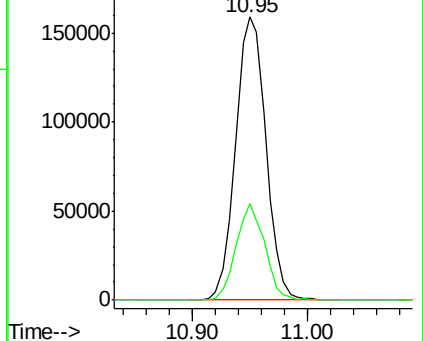
MMDadoda

1/29/2020 12:55:50 PM



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 207.836 ug/l

RT: 9.94 min Scan# 1364

Delta R.T. 0.00 min

Lab File: VD064973.D

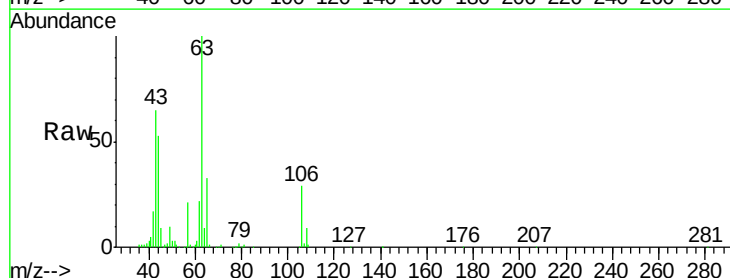
Acq: 28 Jan 2020 10:50

Tgt Ion: 63 Resp: 289580

Ion Ratio Lower Upper

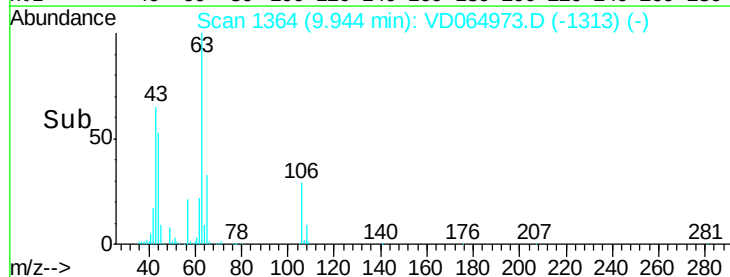
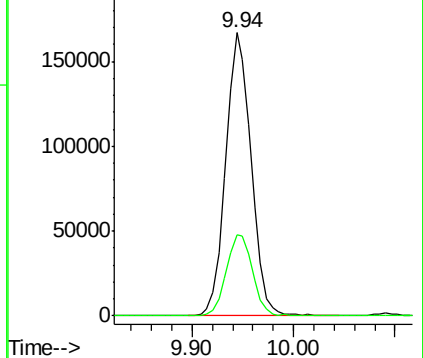
63 100

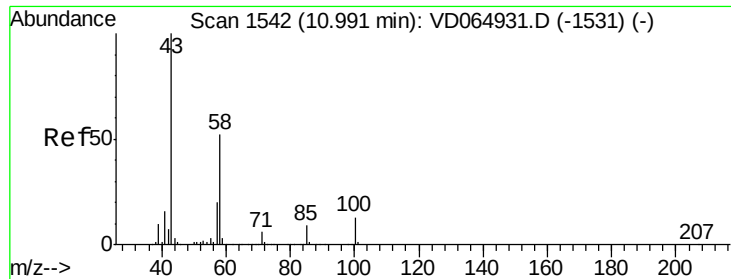
106 29.6 23.0 34.4



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 105.90 (105.60 to 106.60): V





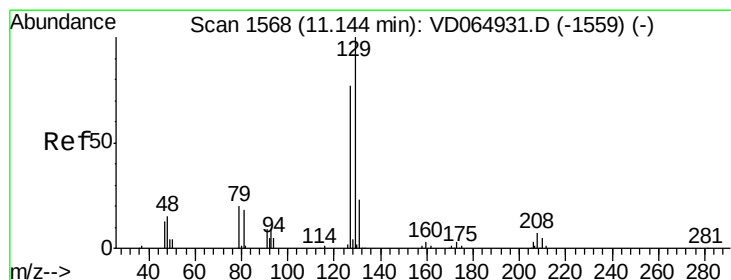
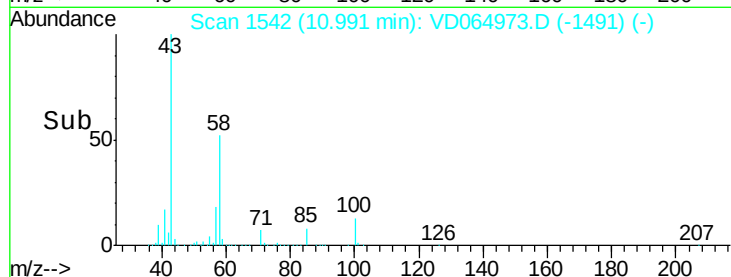
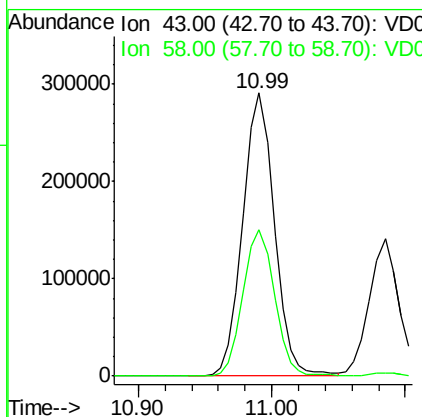
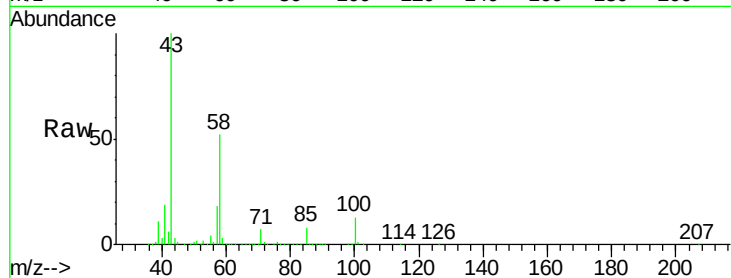
#59
2-Hexanone
Concen: 246.889 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 477544
Ion Ratio Lower Upper
43 100
58 52.0 26.5 79.4

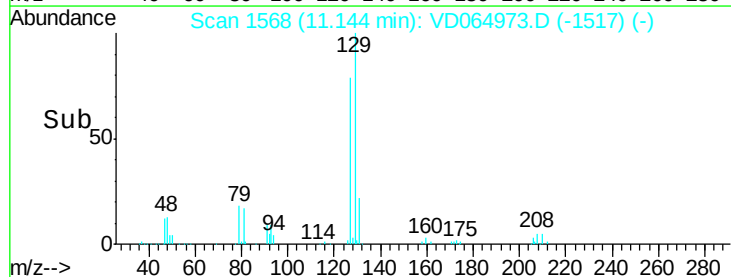
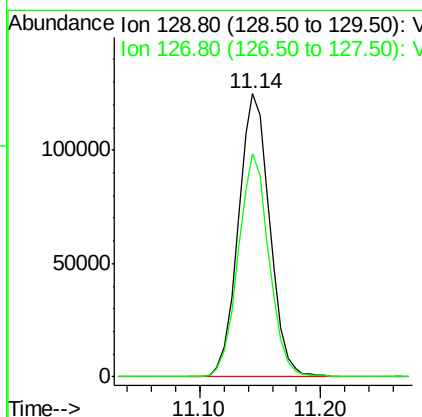
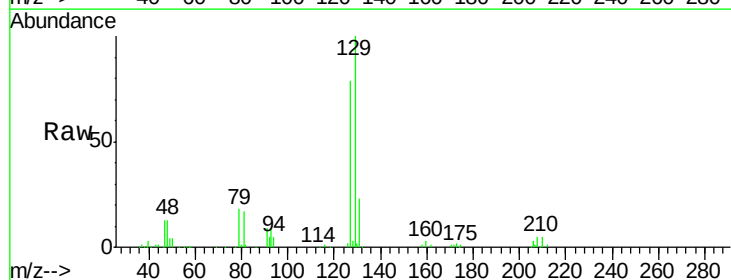
Manual Integrations
APPROVED

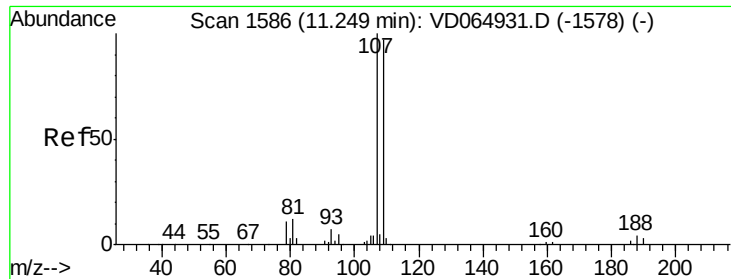
MMDadoda
1/29/2020 12:55:50 PM



#60
Dibromochloromethane
Concen: 48.032 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Tgt Ion: 129 Resp: 225148
Ion Ratio Lower Upper
129 100
127 77.7 38.2 114.6





#61

1,2-Dibromoethane

Concen: 47.692 ug/l

RT: 11.25 min Scan# 1586

Delta R.T. 0.00 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 161054

Ion Ratio Lower Upper

107 100

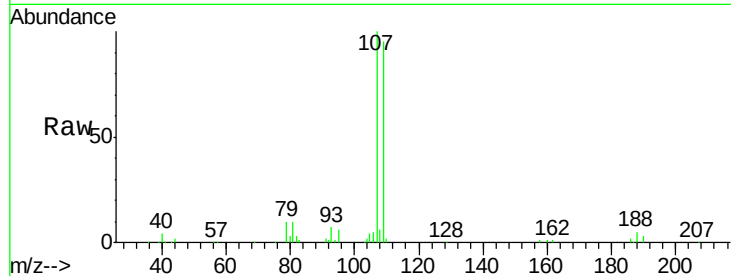
109 93.6 77.1 115.7

Manual Integrations

APPROVED

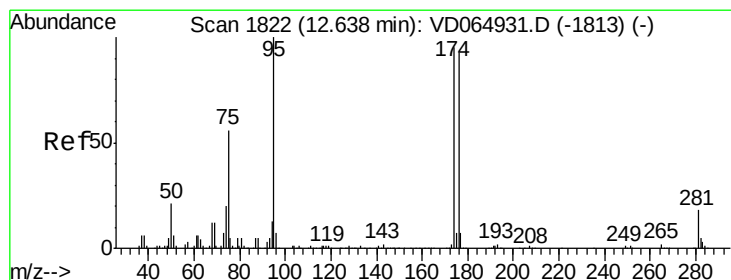
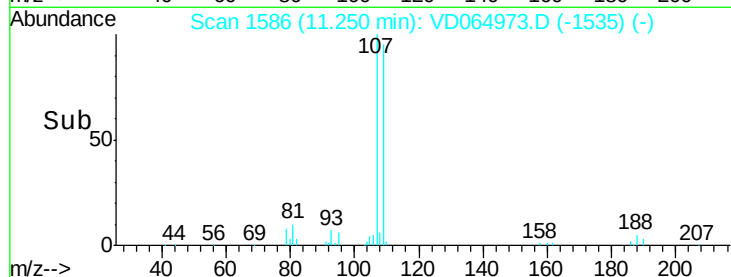
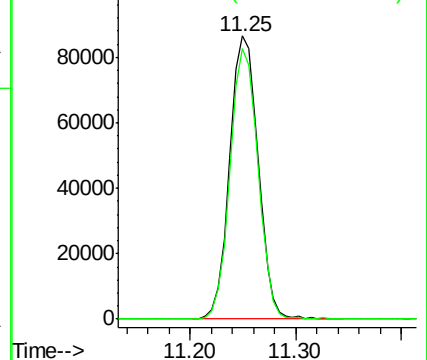
MMDadoda

1/29/2020 12:55:50 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 48.764 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

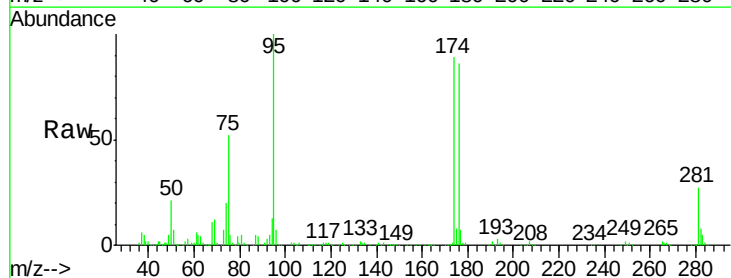
Tgt Ion: 95 Resp: 268102

Ion Ratio Lower Upper

95 100

174 91.5 0.0 186.8

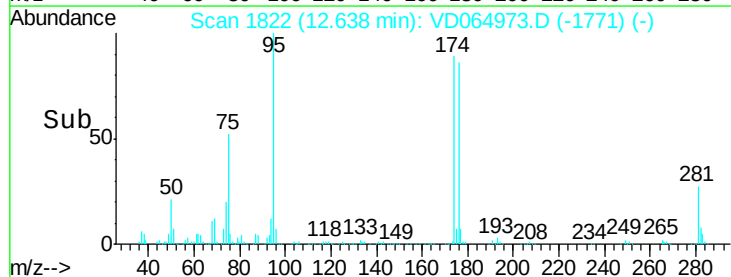
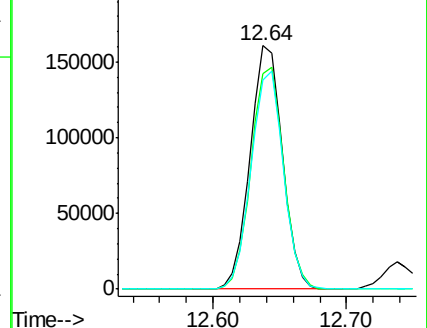
176 89.3 0.0 183.4

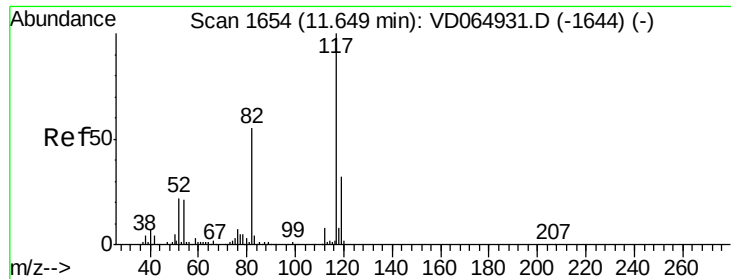


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





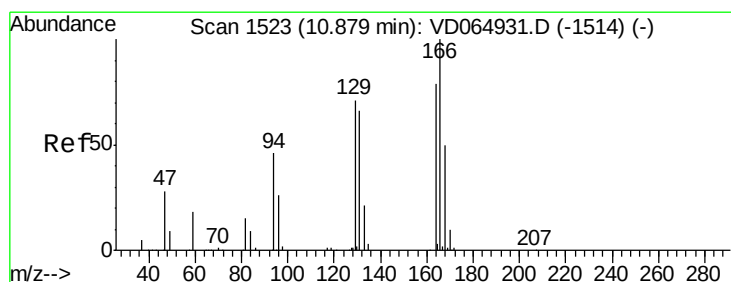
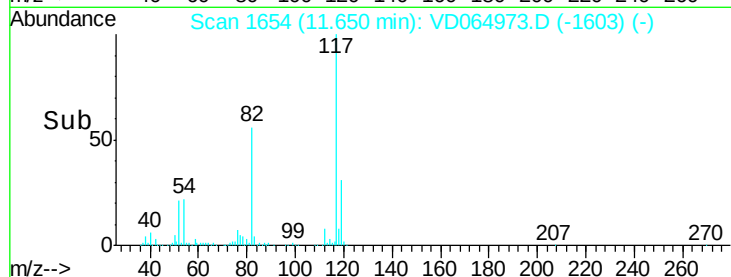
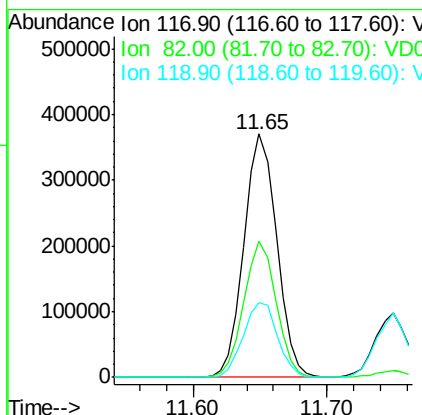
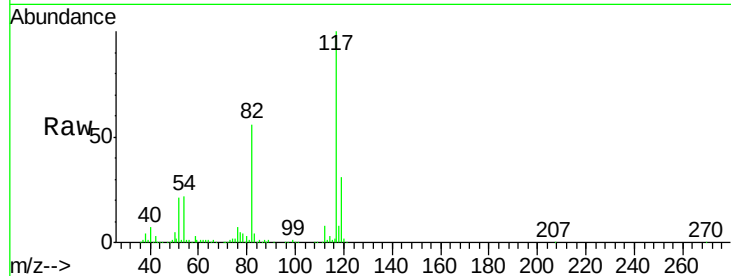
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.7	43.6	65.4
119	30.9	25.2	37.8

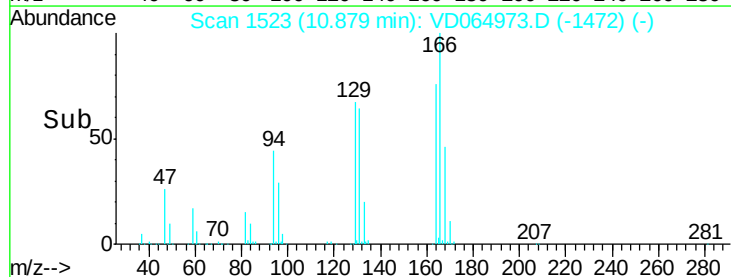
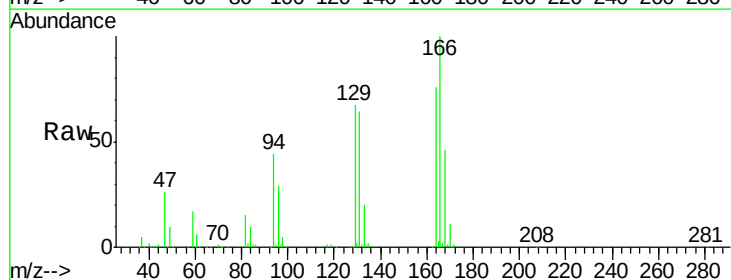
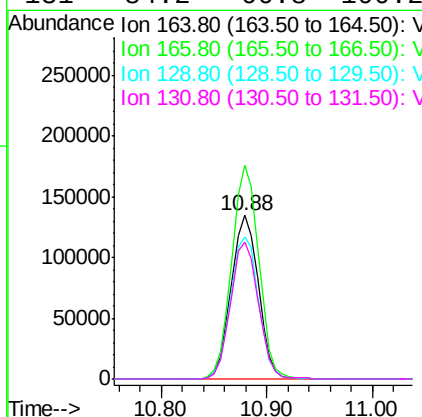
Manual Integrations
APPROVED

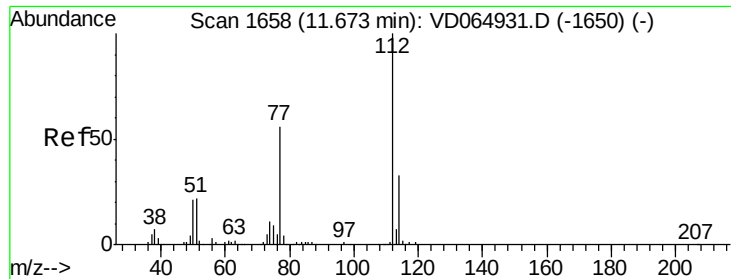
MMDadoda
1/29/2020 12:55:50 PM



#64
Tetrachloroethene
Concen: 52.814 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.8	101.4	152.2
129	87.0	71.8	107.8
131	84.2	66.8	100.2





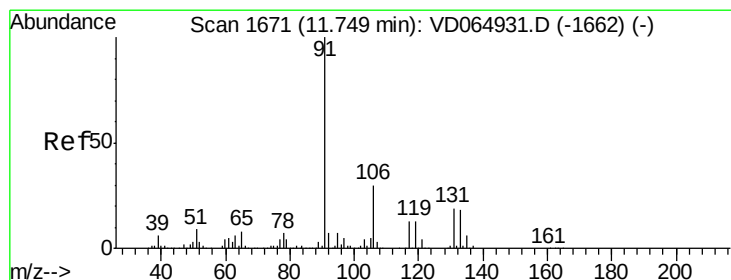
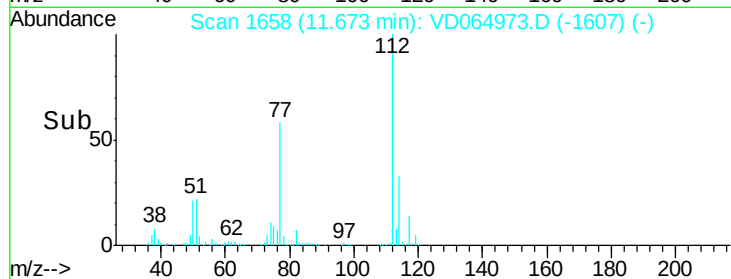
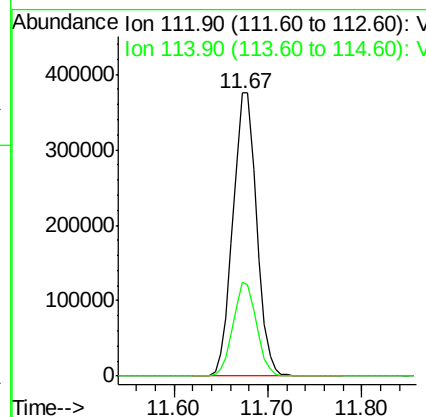
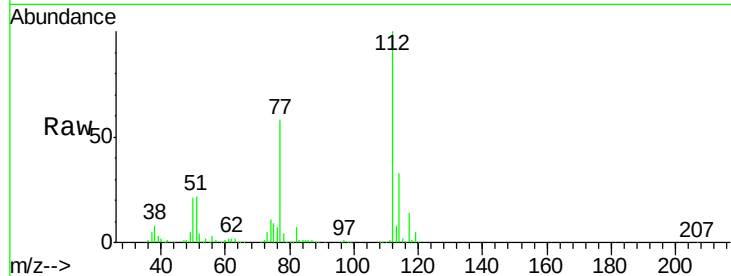
#65
Chlorobenzene
Concen: 51.669 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
112	100		
114	33.3	26.2	39.4

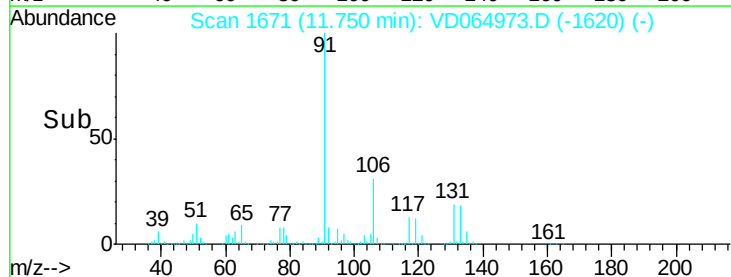
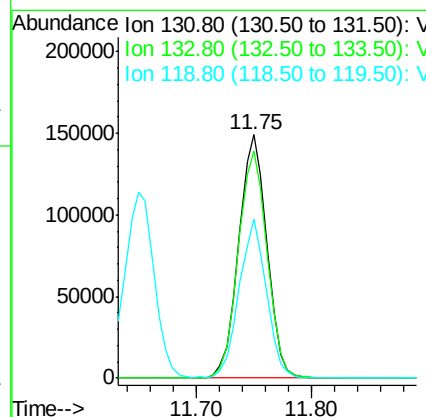
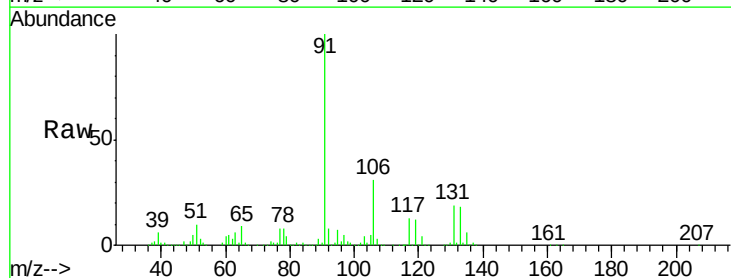
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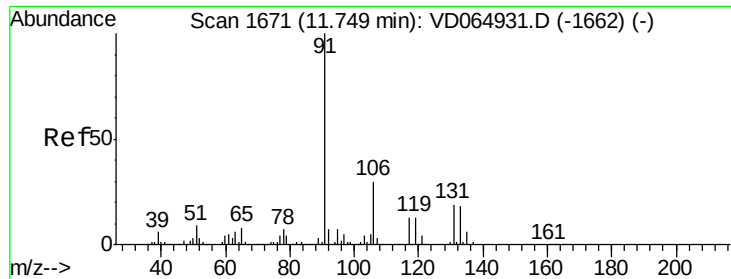
MMDadoda
1/29/2020 12:55:50 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 52.359 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.4	47.5	142.5
119	63.4	31.1	93.5





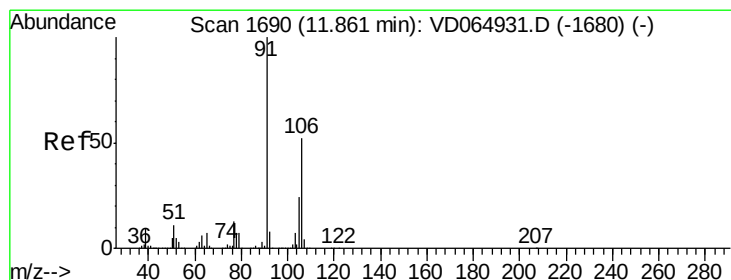
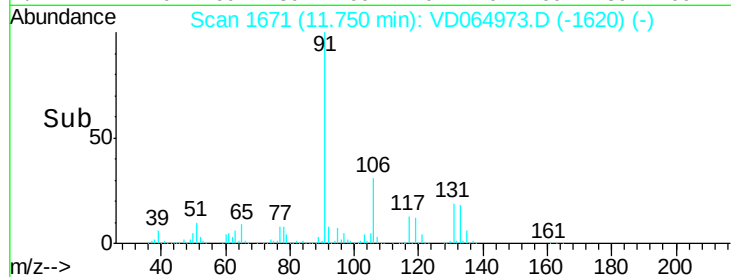
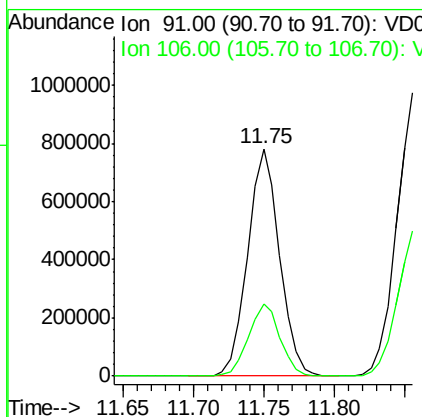
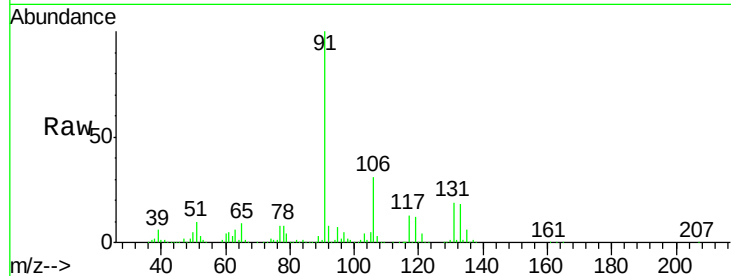
#67
Ethyl Benzene
Concen: 54.548 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1238731
Ion Ratio Lower Upper
91 100
106 31.5 24.3 36.5

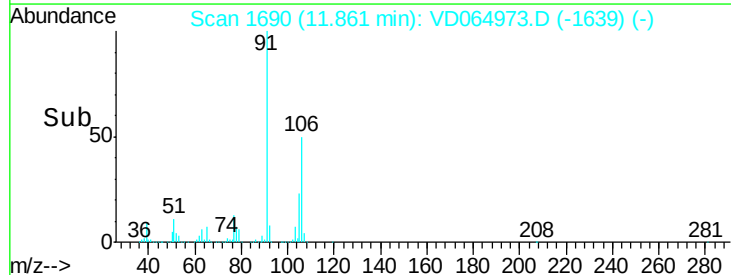
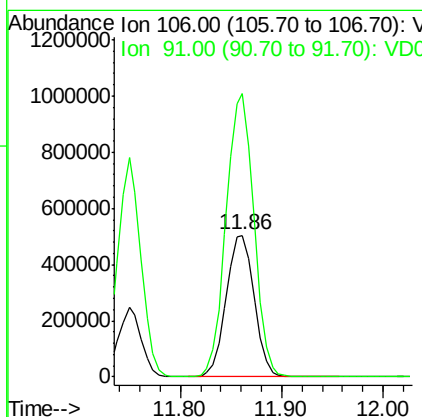
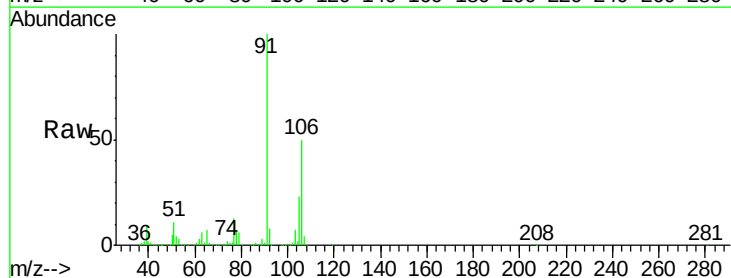
Manual Integrations
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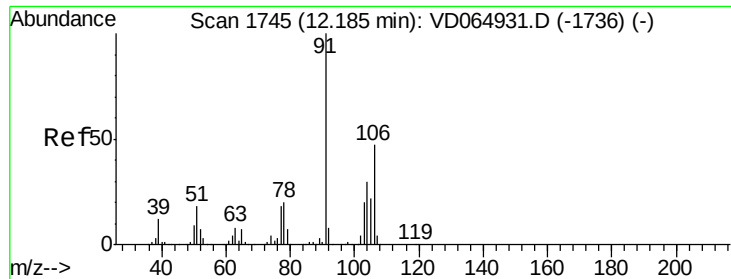
MMDadoda
1/29/2020 12:55:50 PM



#68
m/p-Xylenes
Concen: 110.365 ug/l
RT: 11.86 min Scan# 1690
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Tgt Ion: 106 Resp: 964973
Ion Ratio Lower Upper
106 100
91 198.5 159.0 238.4





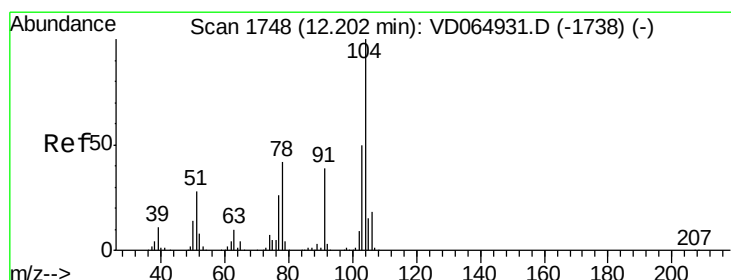
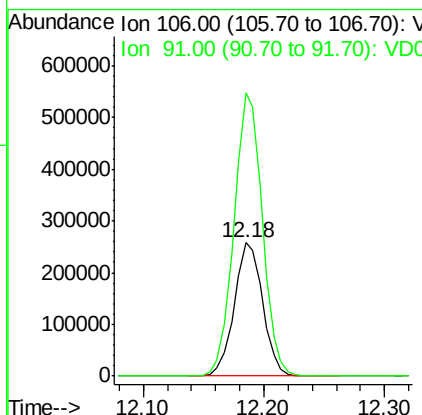
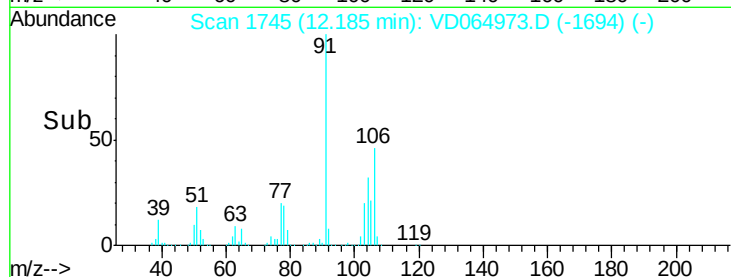
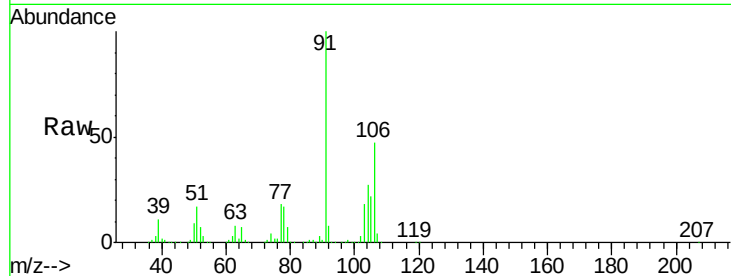
#69
o-Xylene
Concen: 54.516 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 423041
Ion Ratio Lower Upper
106 100
91 211.7 106.7 319.9

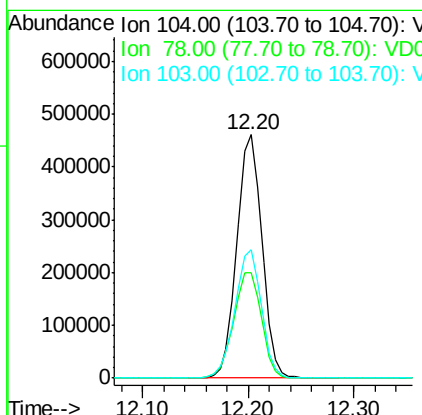
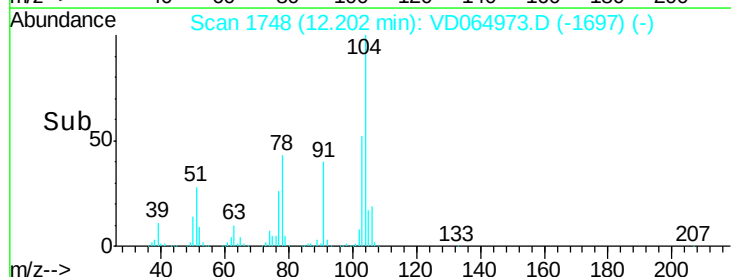
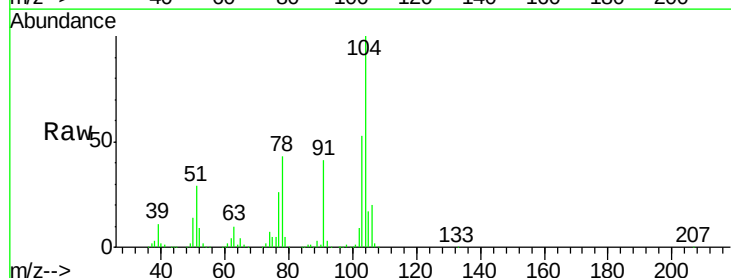
Manual Integrations
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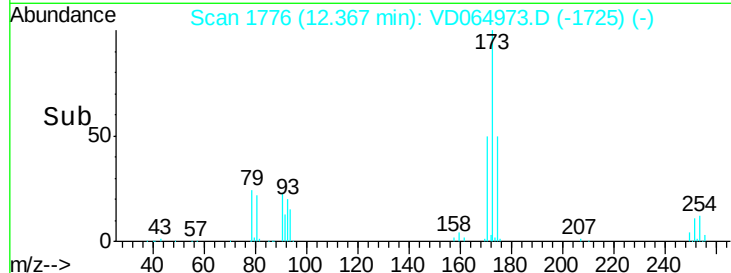
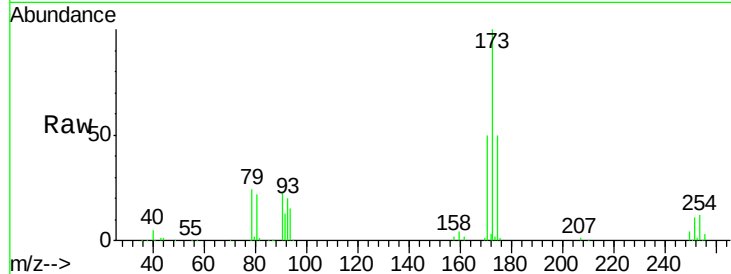
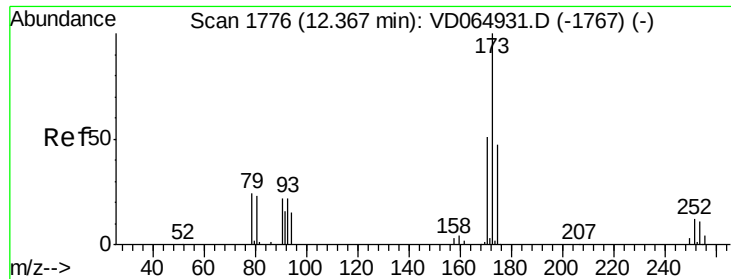
MMDadoda
1/29/2020 12:55:50 PM



#70
Styrene
Concen: 54.749 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Tgt Ion:104 Resp: 756812
Ion Ratio Lower Upper
104 100
78 47.9 38.3 57.5
103 55.4 43.5 65.3





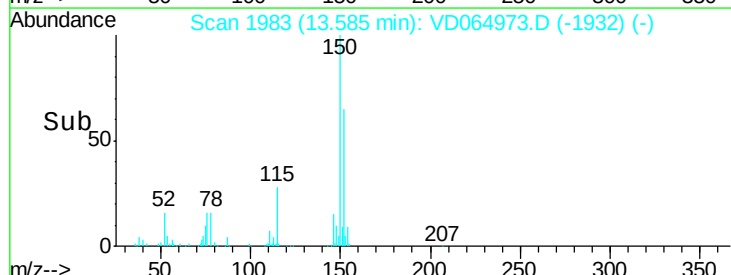
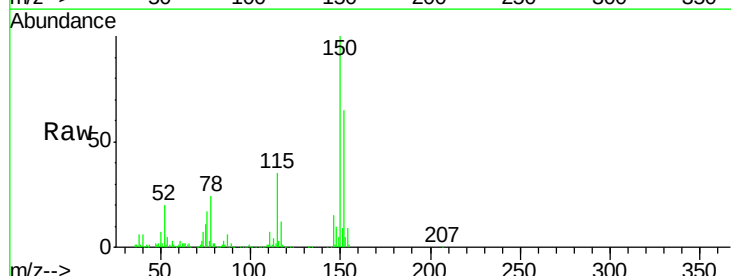
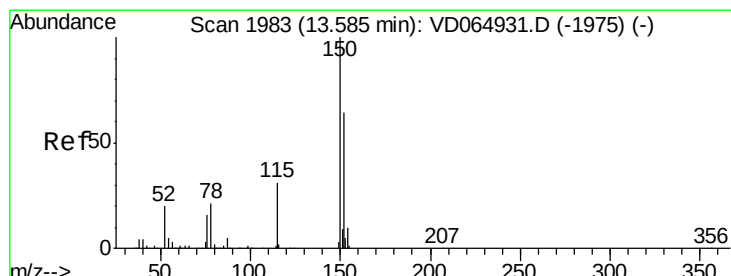
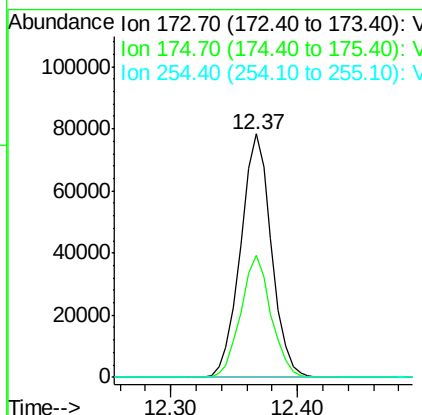
#71
Bromoform
Concen: 49.405 ug/l
RT: 12.37 min Scan# 1776
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.6	73.8
254	0.2	0.1	0.1#

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

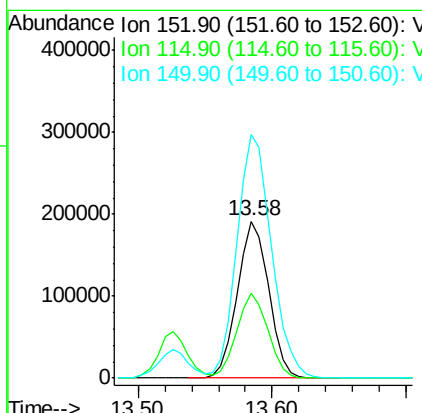
Manual Integrations
APPROVED

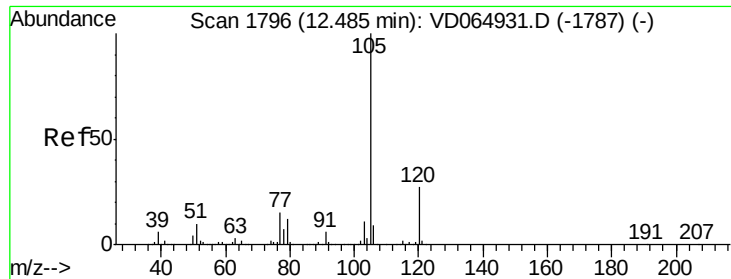
MMDadoda
1/29/2020 12:55:50 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.9	28.1	84.4
150	171.4	0.0	350.4





#73

Isopropylbenzene

Concen: 55.406 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1175199

Ion Ratio Lower Upper

105 100

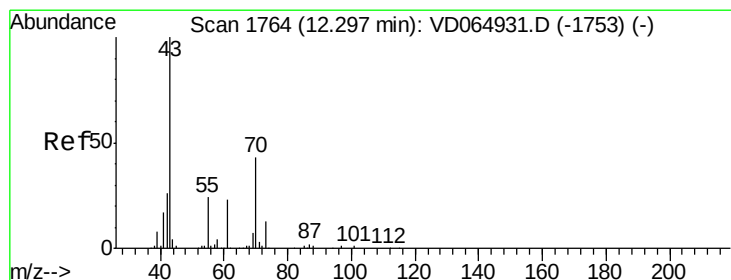
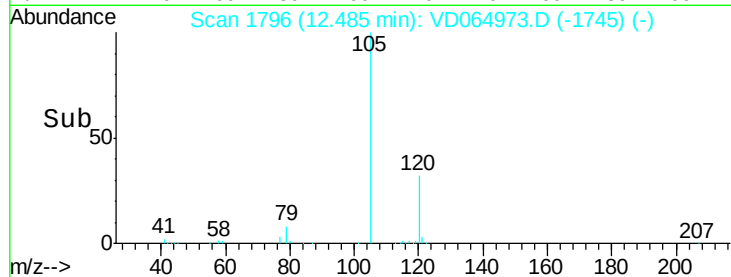
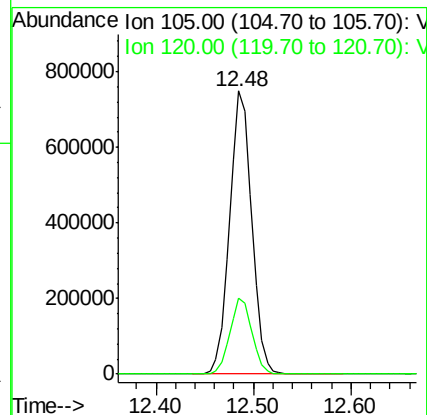
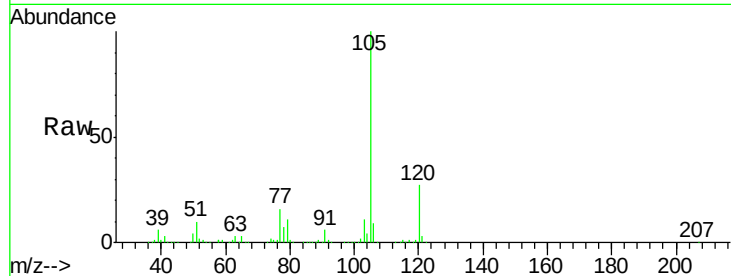
120 26.7 13.3 39.8

Manual Integrations

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1/29/2020 12:55:50 PM



#74

N-ethyl acetate

Concen: 49.412 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Tgt Ion: 43 Resp: 234525

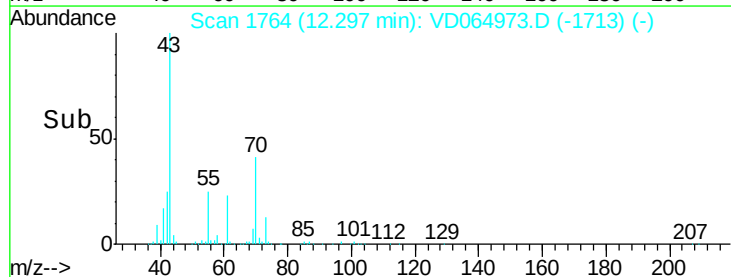
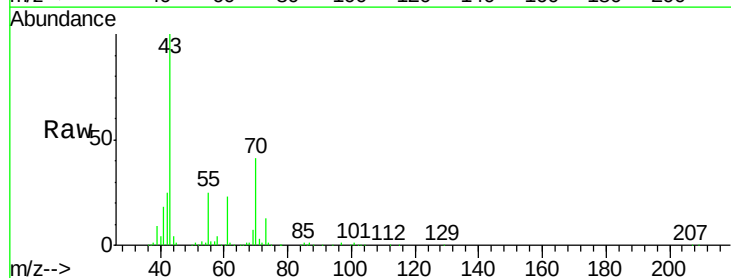
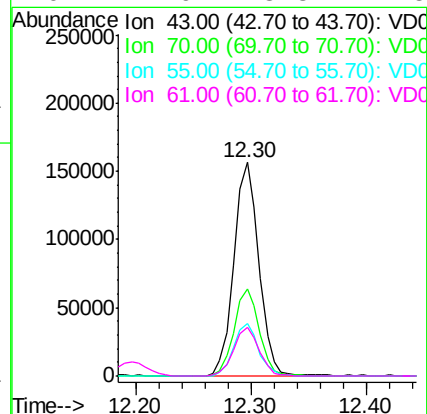
Ion Ratio Lower Upper

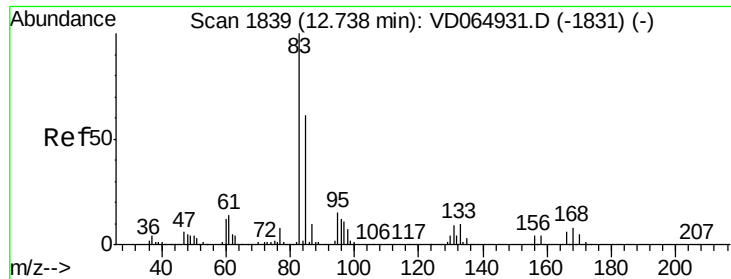
43 100

70 41.1 32.6 49.0

55 24.7 19.9 29.9

61 22.9 18.3 27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 47.626 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Instrument :

MSVOA_D

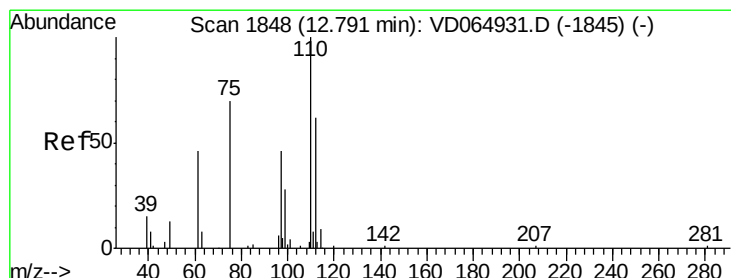
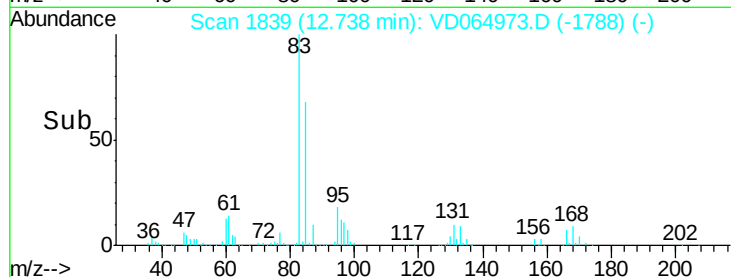
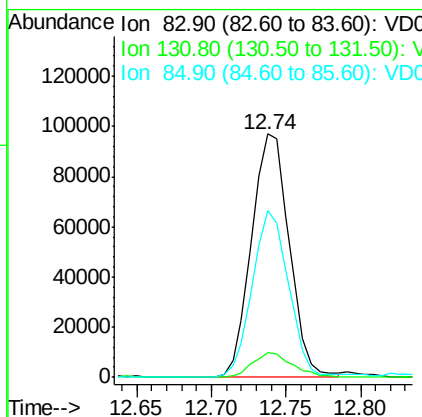
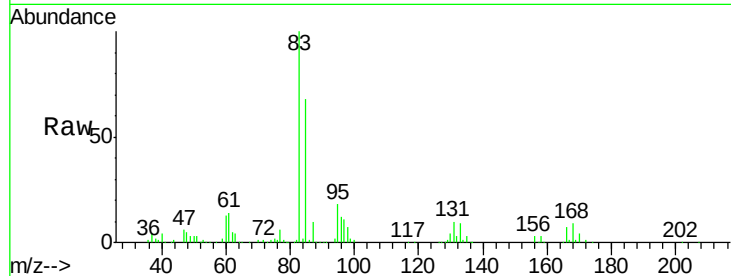
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	169783
Ion Ratio	Lower	Upper	
83	100		
131	11.0	5.5	16.4
85	66.9	31.6	94.7

Manual Integrations
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1/29/2020 12:55:50 PM



#76

1,2,3-Trichloropropane

Concen: 44.334 ug/l m

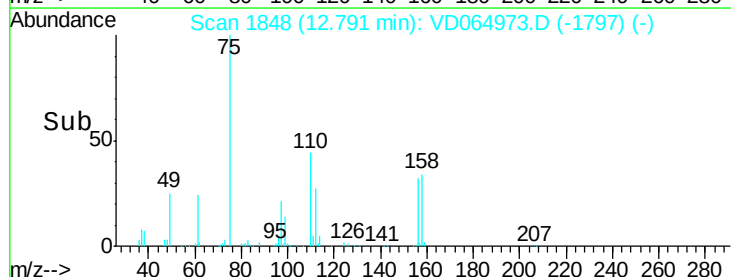
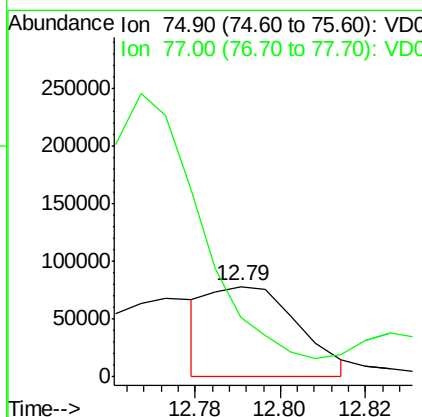
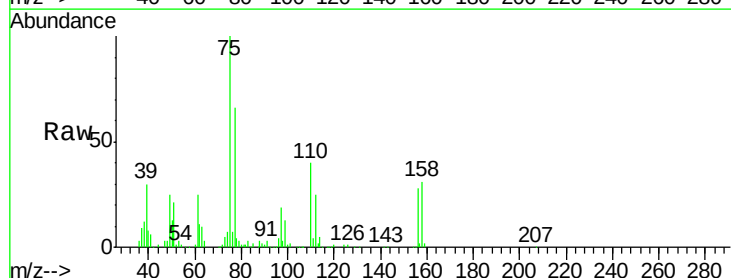
RT: 12.79 min Scan# 1848

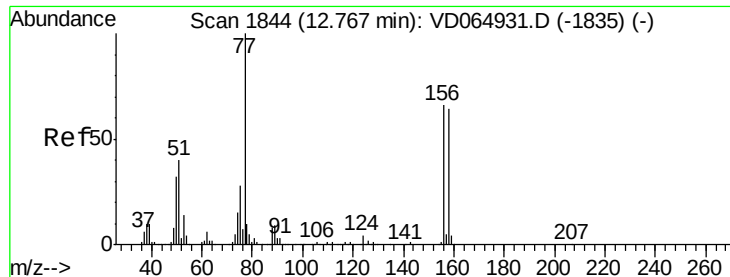
Delta R.T. 0.00 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Tgt Ion:	75	Resp:	114193
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 51.265 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.00 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Instrument :

MSVOA_D

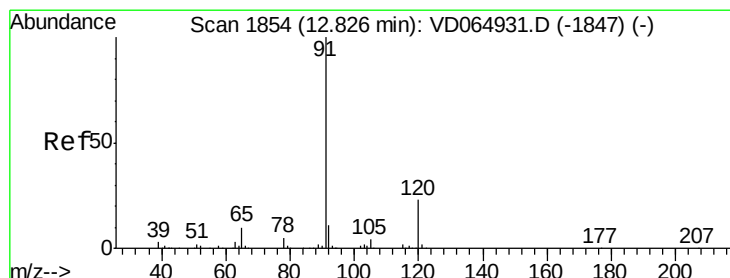
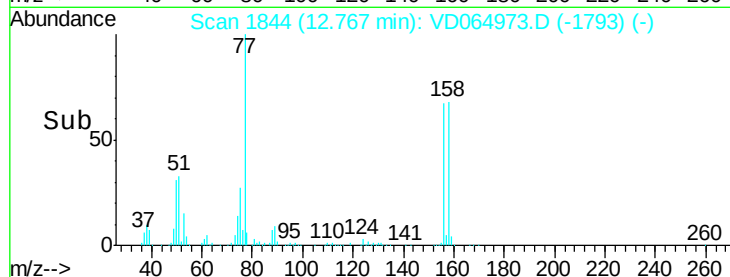
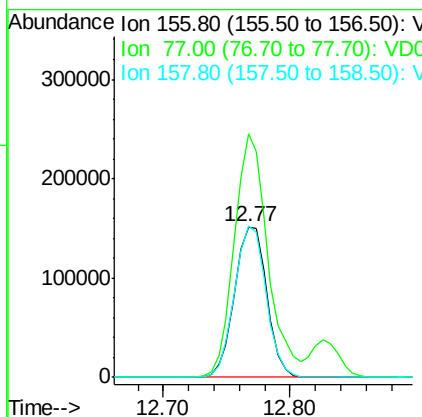
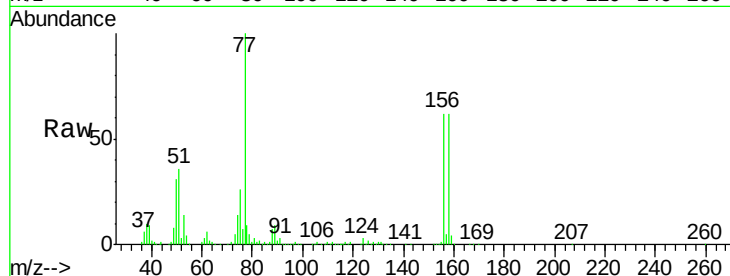
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	266051
Ion Ratio	Lower	Upper	
156	100		
77	168.4	84.2	252.5
158	99.0	48.1	144.4

Manual Integrations
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#78

n-propylbenzene

Concen: 55.426 ug/l

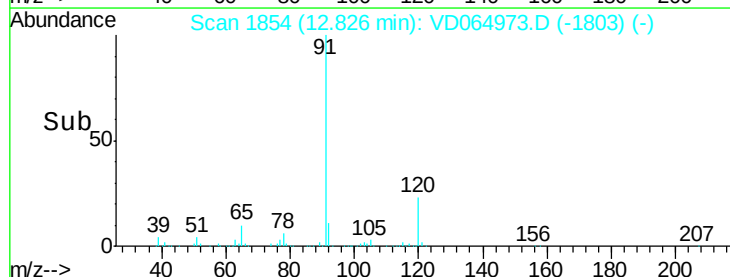
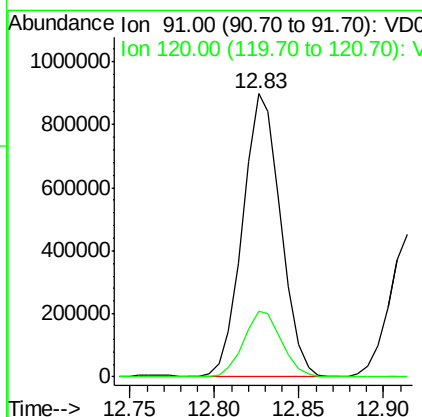
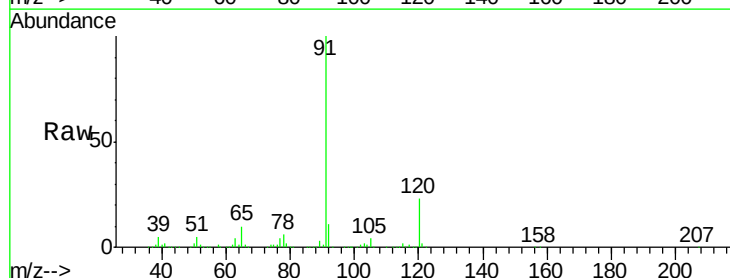
RT: 12.83 min Scan# 1854

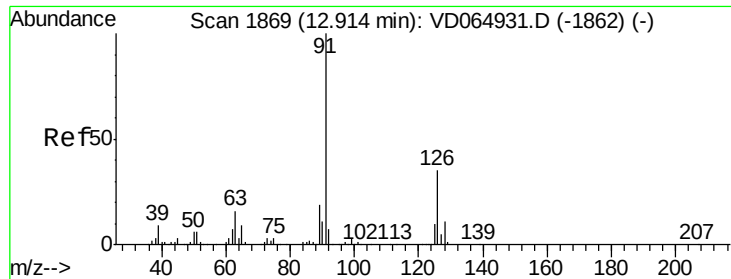
Delta R.T. 0.00 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Tgt Ion:	91	Resp:	1398097
Ion Ratio	Lower	Upper	
91	100		
120	23.3	11.7	35.1





#79

2-Chlorotoluene

Concen: 54.441 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. 0.00 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 753340

Ion Ratio Lower Upper

91 100

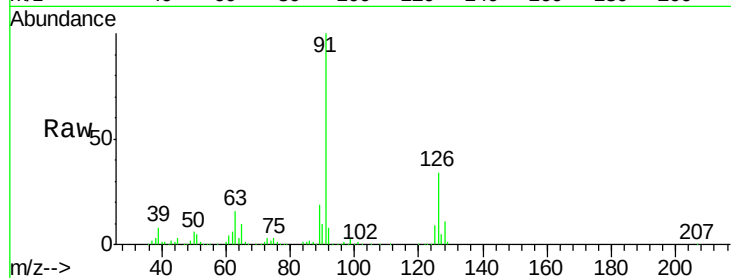
126 34.5 17.9 53.8

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VD064931.D (-1862) (-)

Ion 125.90 (125.60 to 126.60): VD064931.D (-1862) (-)

600000

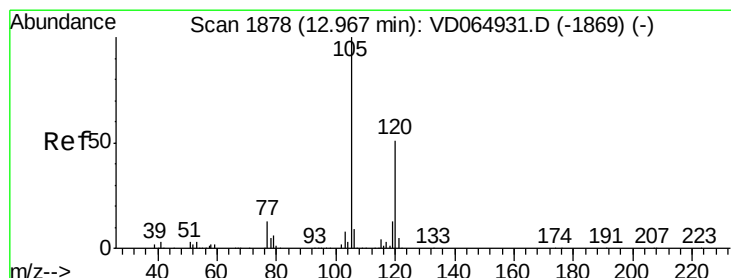
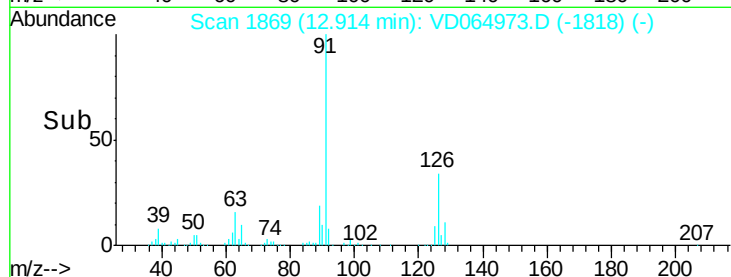
400000

200000

0

12.85 12.90 12.95

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 55.401 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD064973.D

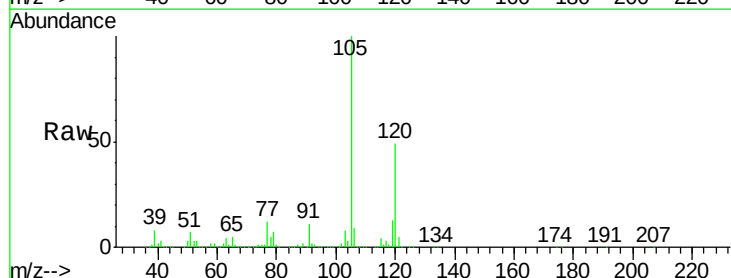
Acq: 28 Jan 2020 10:50

Tgt Ion: 105 Resp: 962980

Ion Ratio Lower Upper

105 100

120 49.7 25.6 76.8



Abundance Ion 105.00 (104.70 to 105.70): VD064931.D (-1869) (-)

Ion 120.00 (119.70 to 120.70): VD064931.D (-1869) (-)

600000

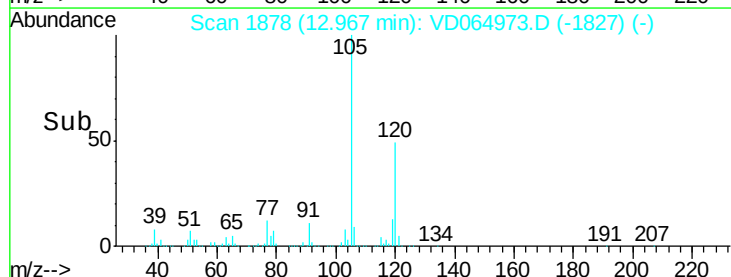
400000

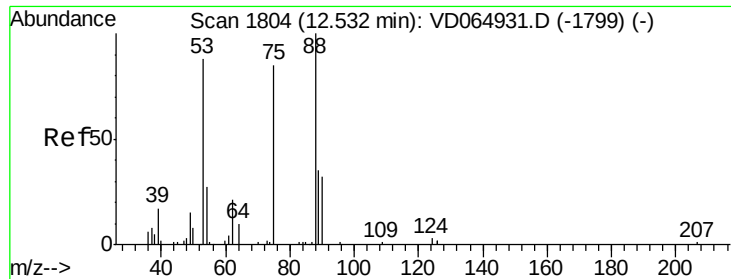
200000

0

12.90 13.00

Time-->





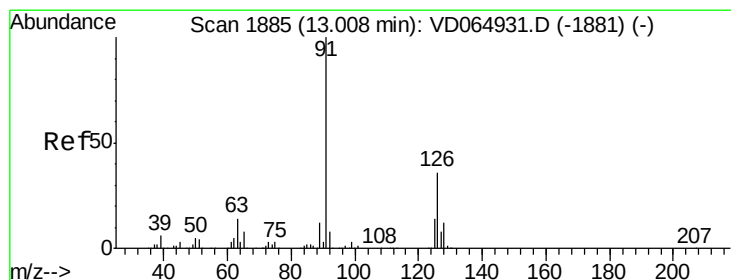
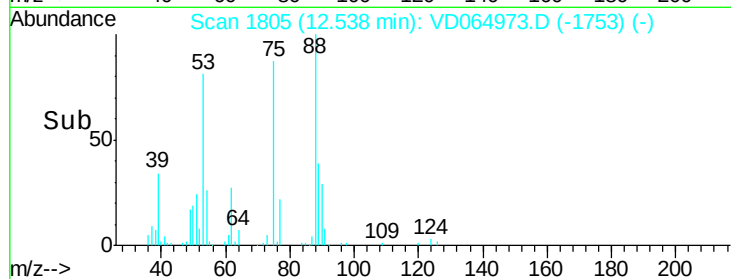
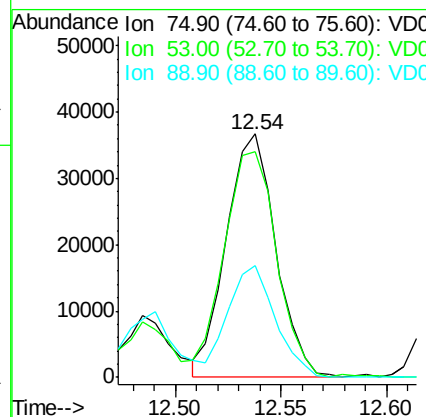
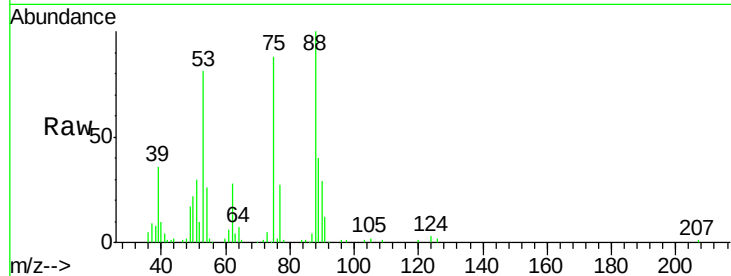
#81
trans-1,4-Dichloro-2-butene
Concen: 49.385 ug/l
RT: 12.54 min Scan# 1805
Delta R.T. 0.01 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	99.6	81.0	121.4
89	43.6	36.2	54.4

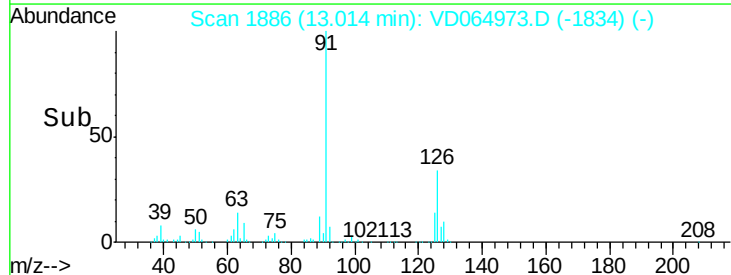
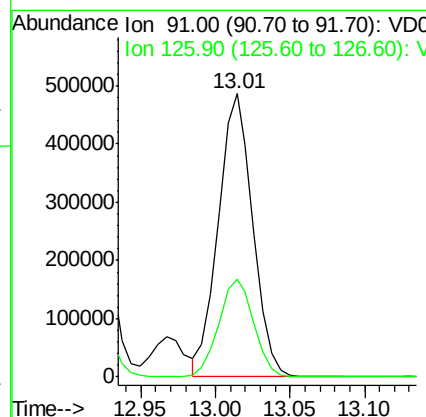
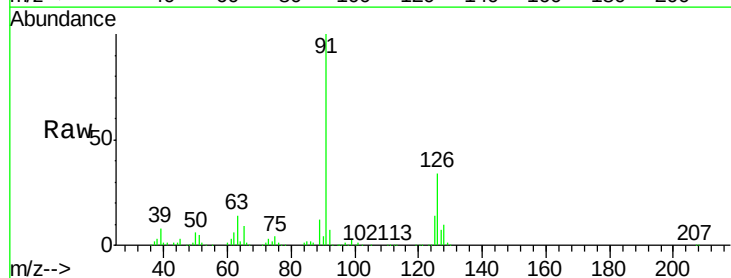
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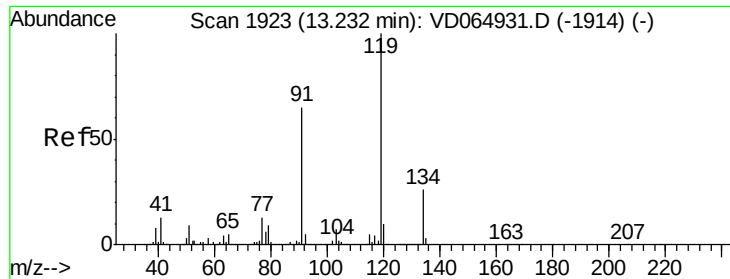
MMDadoda
1/29/2020 12:55:50 PM



#82
4-Chlorotoluene
Concen: 53.235 ug/l
RT: 13.01 min Scan# 1886
Delta R.T. 0.01 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.2	18.0	54.0





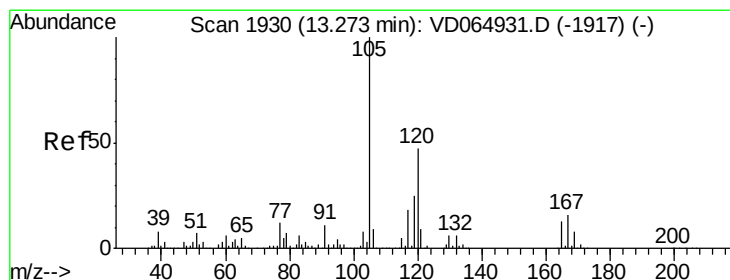
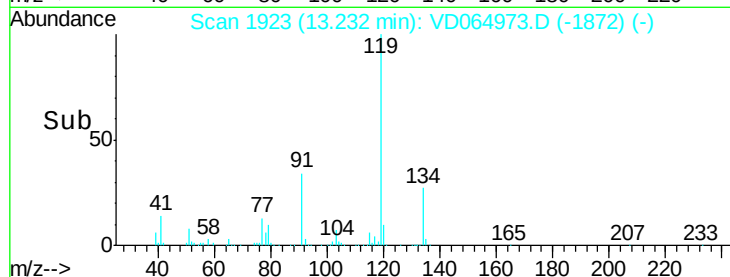
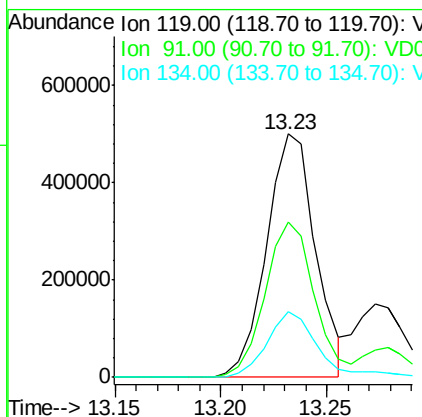
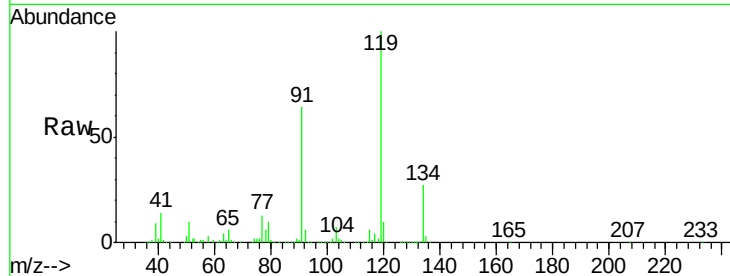
#83
tert-Butylbenzene
Concen: 54.677 ug/l
RT: 13.23 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	64.4	32.0	96.0
134	28.2	13.9	41.6

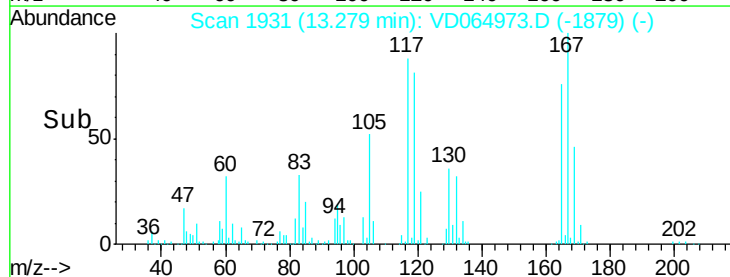
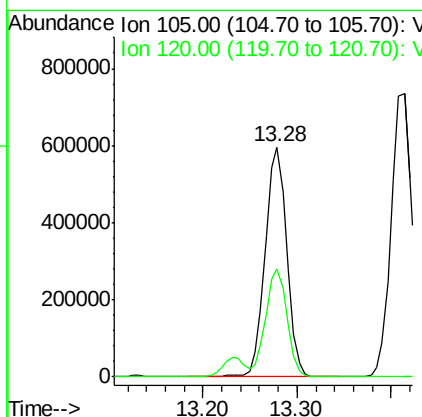
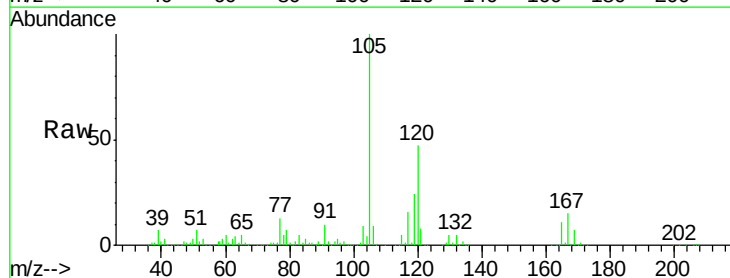
Manual Integrations
APPROVED

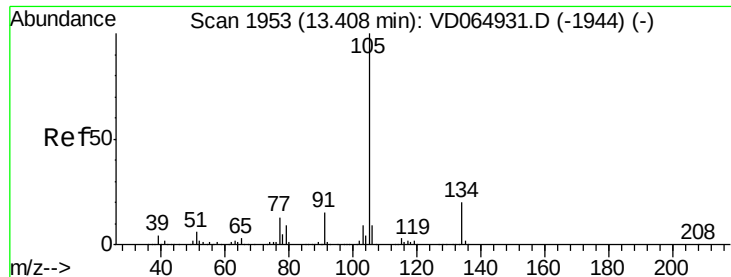
MMDadoda
1/29/2020 12:55:50 PM



#84
1,2,4-Trimethylbenzene
Concen: 53.933 ug/l
RT: 13.28 min Scan# 1931
Delta R.T. 0.01 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.4	23.1	69.3





#85

sec-Butylbenzene

Concen: 55.545 ug/l

RT: 13.41 min Scan# 1954

Delta R.T. 0.01 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1160100

Ion Ratio Lower Upper

105 100

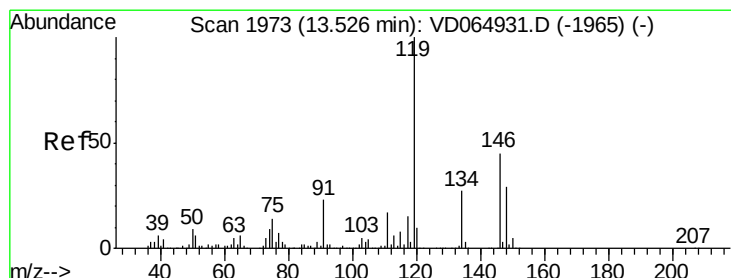
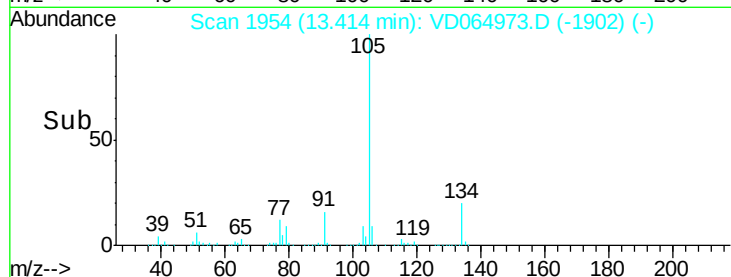
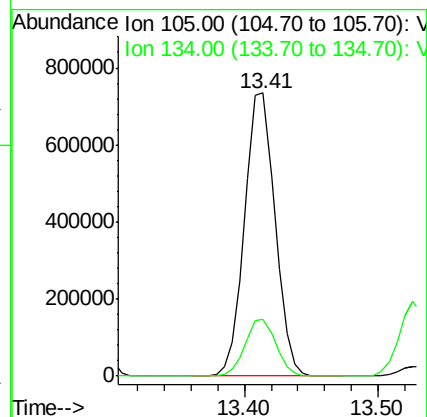
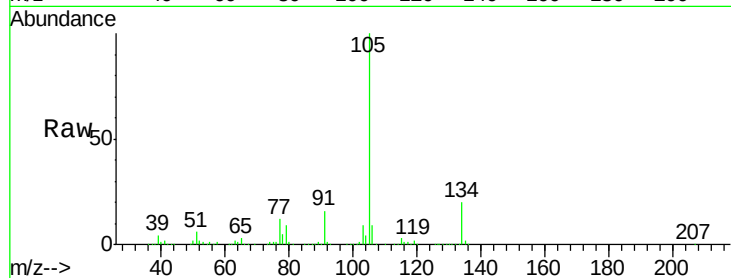
134 20.1 10.4 31.4

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 55.601 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

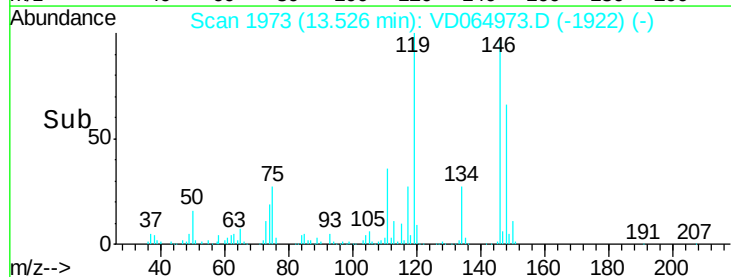
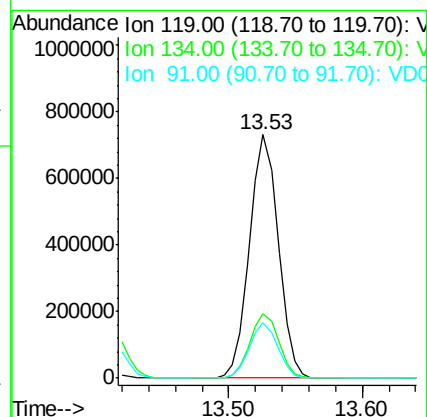
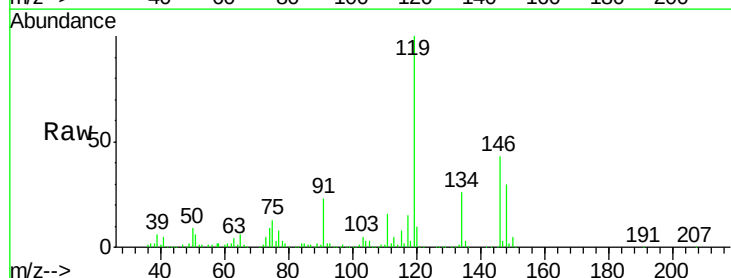
Tgt Ion:119 Resp: 1086664

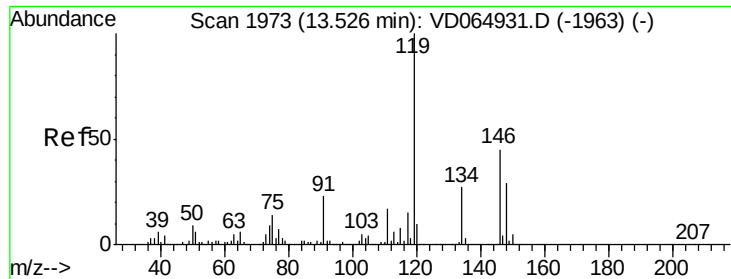
Ion Ratio Lower Upper

119 100

134 26.7 13.3 39.9

91 22.5 11.4 34.2





#87

1,3-Dichlorobenzene

Concen: 52.276 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Instrument :

MSVOA_D

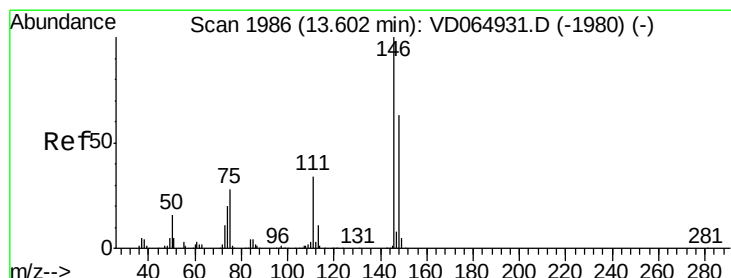
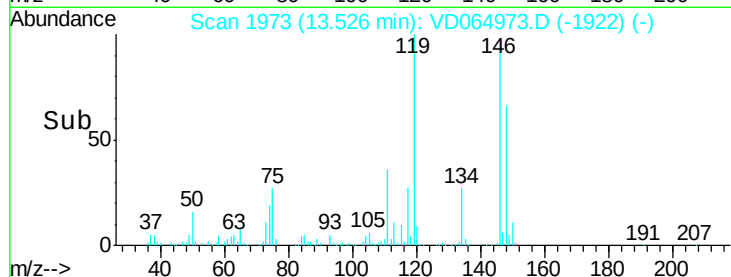
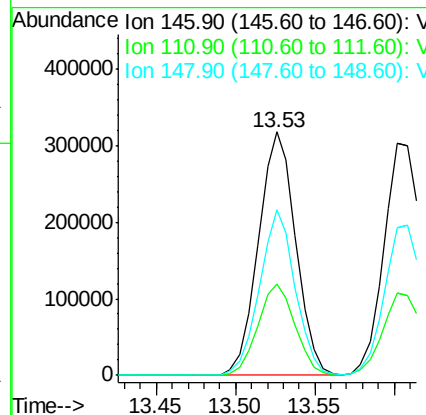
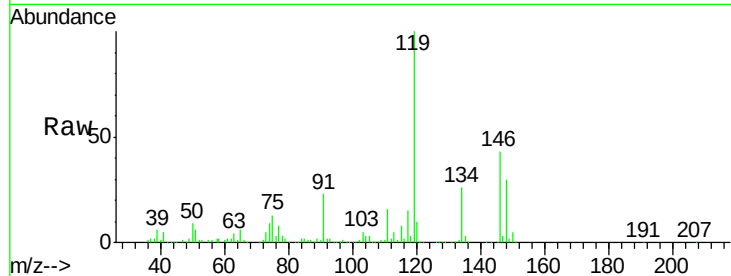
ClientSampleId :

VSTDCCC050

Tot Ion:	146	Resp:	520539
Ion Ratio	Lower	Upper	
146	100		
111	37.4	18.9	56.9
148	65.0	32.6	97.7

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 51.332 ug/l

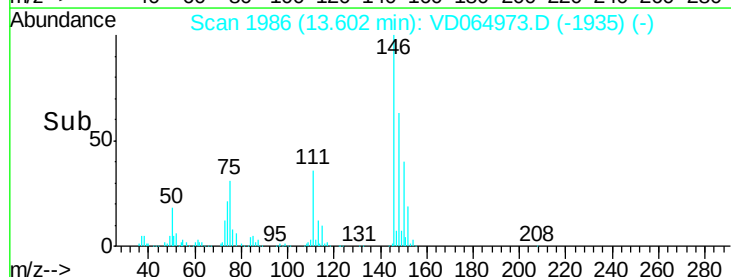
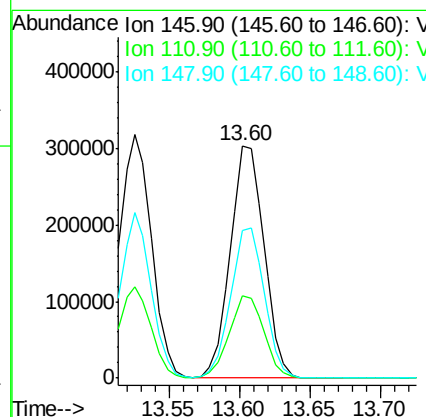
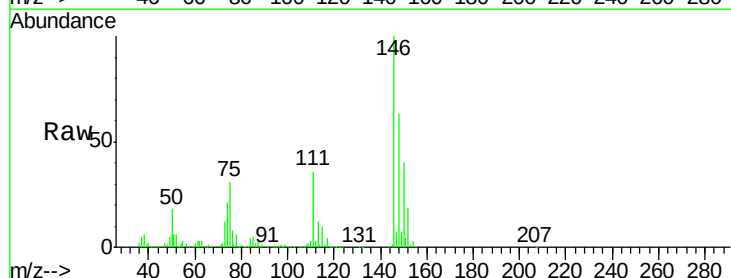
RT: 13.60 min Scan# 1986

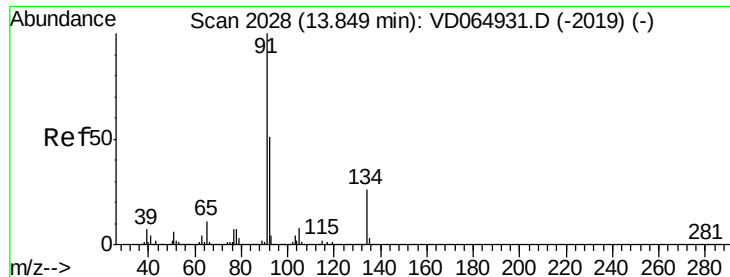
Delta R.T. 0.00 min

Lab File: VD064973.D

Acq: 28 Jan 2020 10:50

Tgt Ion:	146	Resp:	507316
Ion Ratio	Lower	Upper	
146	100		
111	36.3	18.2	54.6
148	64.3	32.0	96.0





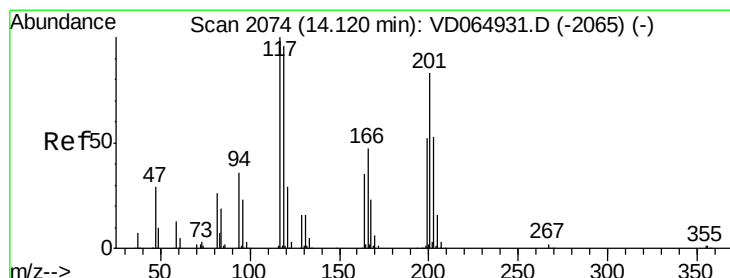
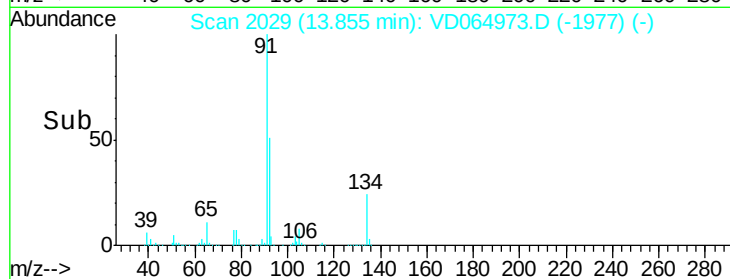
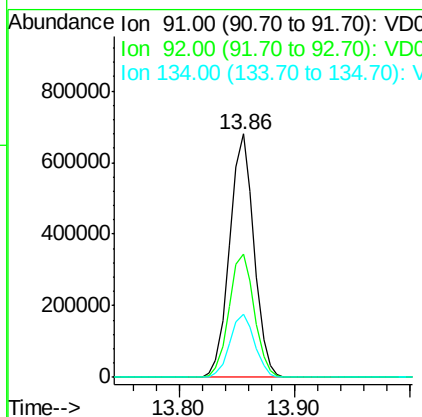
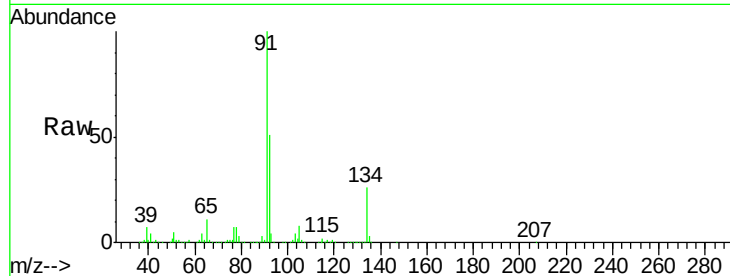
#89
n-Butylbenzene
Concen: 55.627 ug/l
RT: 13.86 min Scan# 2029
Delta R.T. 0.01 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.7	26.4	79.0
134	26.5	13.3	39.9

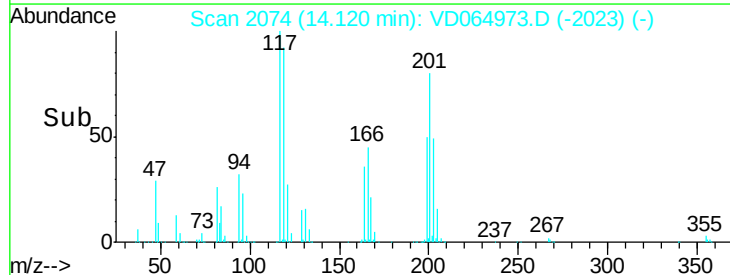
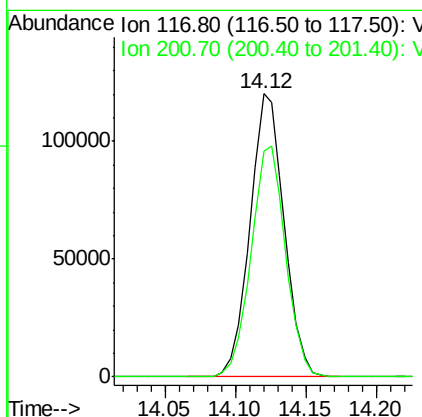
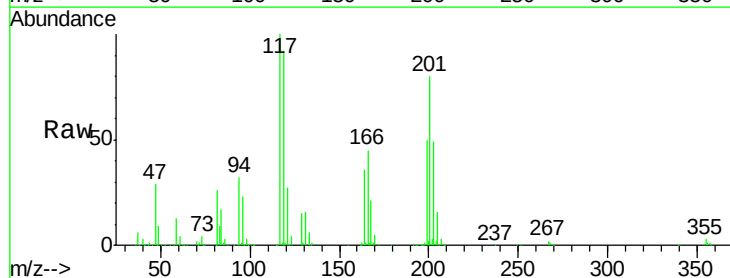
Manual Integrations
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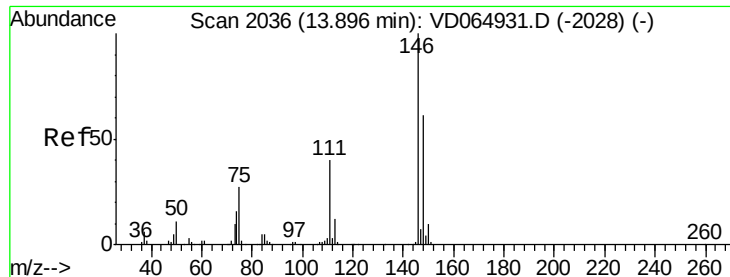
MMDadoda
1/29/2020 12:55:50 PM



#90
Hexachloroethane
Concen: 54.086 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Tgt Ion	Ratio	Lower	Upper
117	100		
201	82.5	41.1	123.3





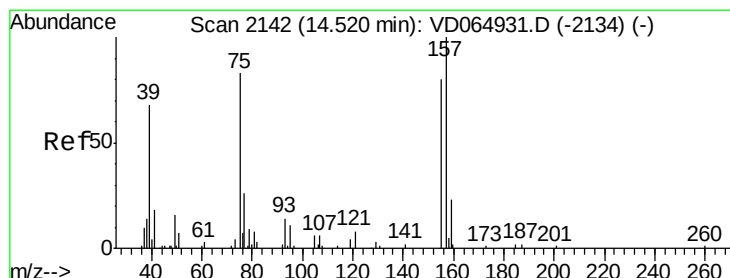
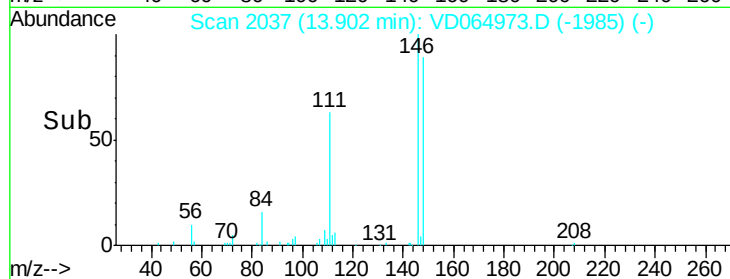
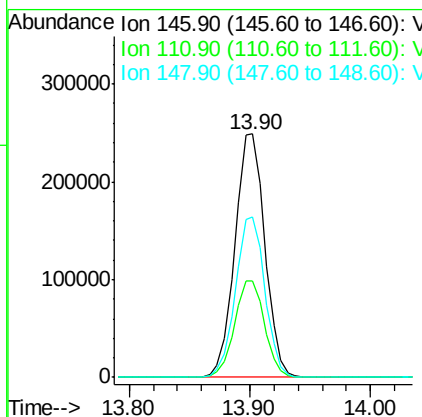
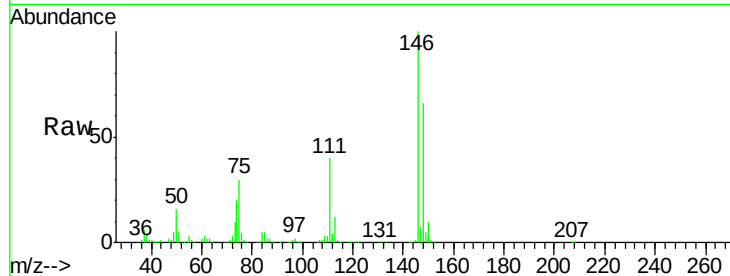
#91
 1,2-Dichlorobenzene
 Concen: 50.949 ug/l
 RT: 13.90 min Scan# 2037
 Delta R.T. 0.01 min
 Lab File: VD064973.D
 Acq: 28 Jan 2020 10:50

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.6	19.4	58.2
148	64.7	31.6	95.0

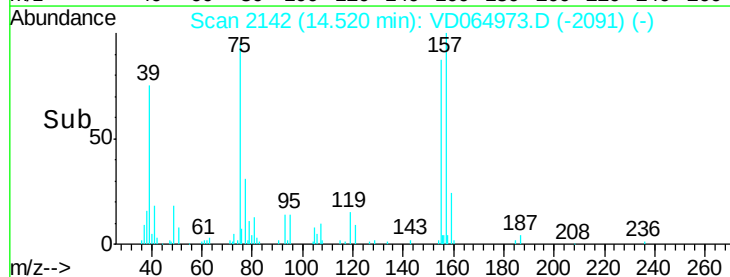
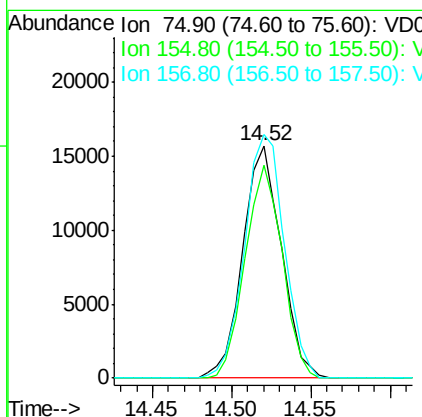
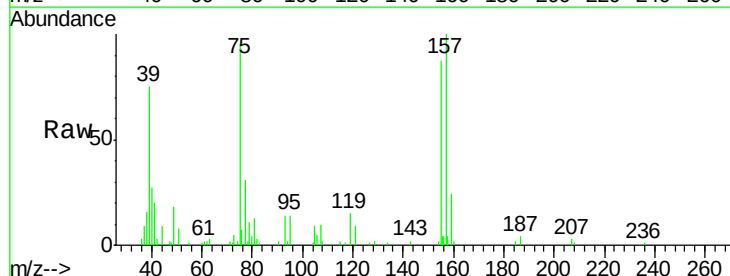
Manual Integrations
 APPROVED

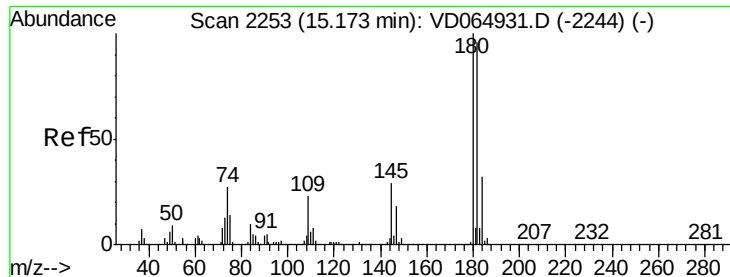
MMDadoda
 1/29/2020 12:55:50 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 46.598 ug/l
 RT: 14.52 min Scan# 2142
 Delta R.T. 0.00 min
 Lab File: VD064973.D
 Acq: 28 Jan 2020 10:50

Tgt Ion	Ratio	Lower	Upper
75	100		
155	88.0	44.9	134.7
157	108.2	58.9	176.6





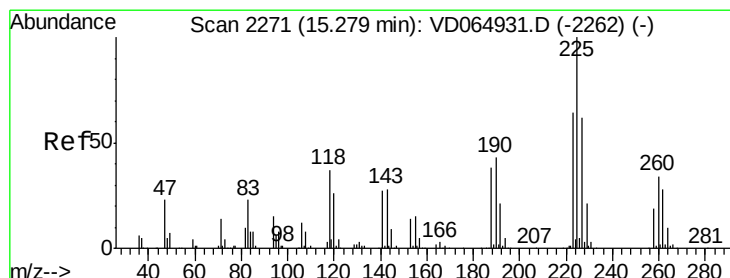
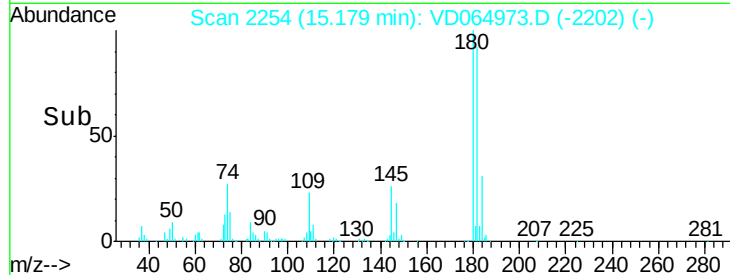
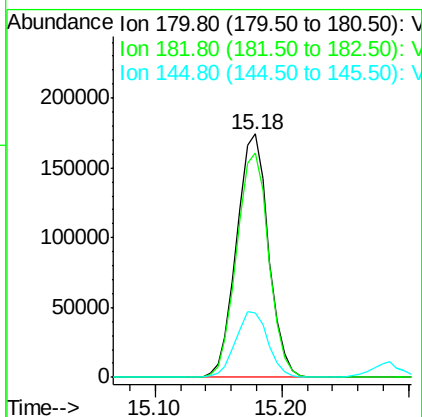
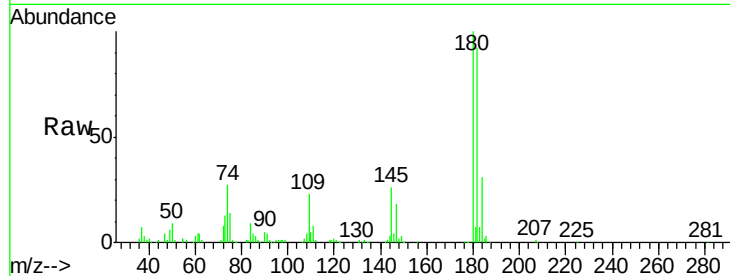
#93
 1,2,4-Trichlorobenzene
 Concen: 51.964 ug/l
 RT: 15.18 min Scan# 2254
 Delta R.T. 0.01 min
 Lab File: VD064973.D
 Acq: 28 Jan 2020 10:50

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:	180	Resp:	303901
Ion Ratio	Lower	Upper	
180	100		
182	93.2	47.1	141.4
145	27.2	14.1	42.3

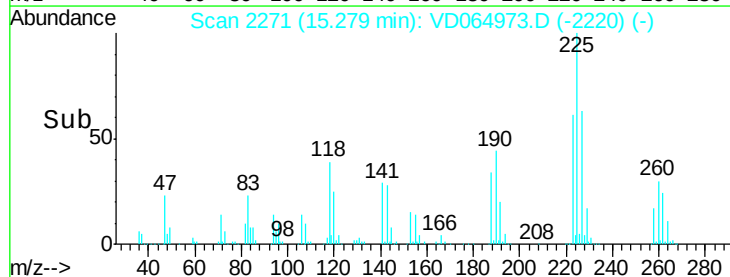
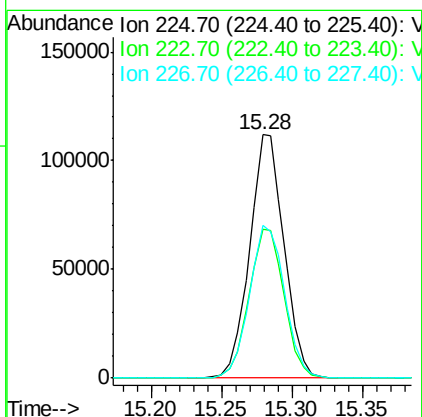
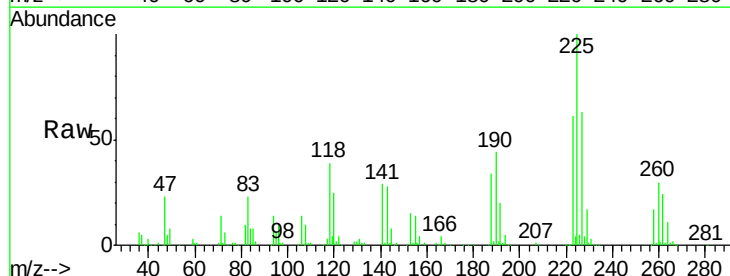
Manual Integrations
 APPROVED

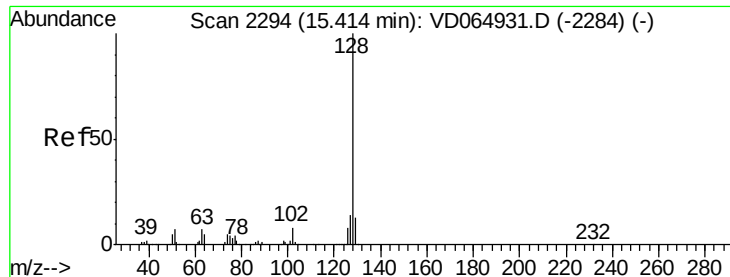
MMDadoda
 1/29/2020 12:55:50 PM



#94
 Hexachlorobutadiene
 Concen: 51.769 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. 0.00 min
 Lab File: VD064973.D
 Acq: 28 Jan 2020 10:50

Tgt Ion:	225	Resp:	191503
Ion Ratio	Lower	Upper	
225	100		
223	62.5	32.4	97.2
227	64.1	31.9	95.9





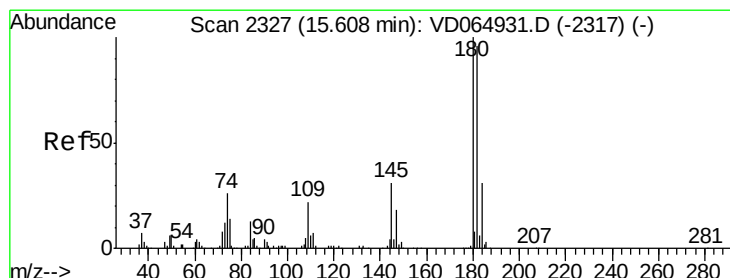
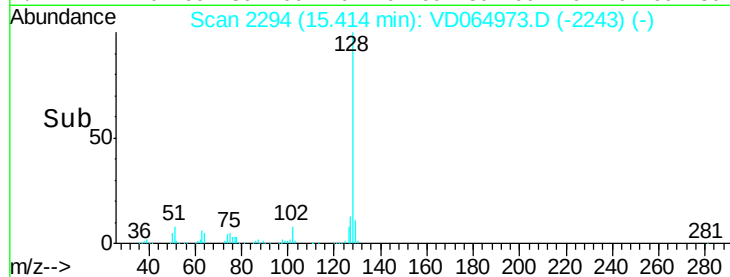
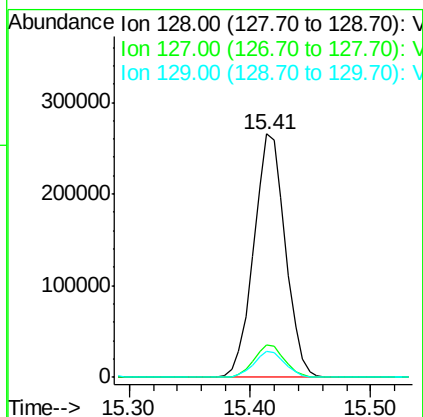
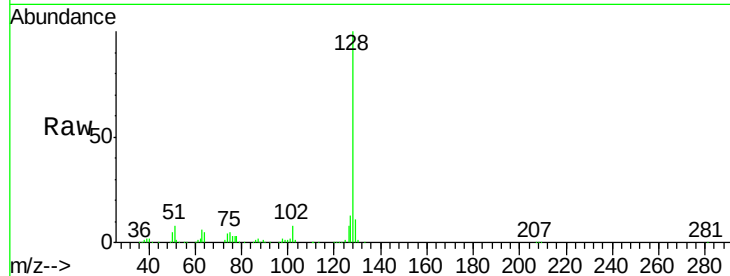
#95
Naphthalene
Concen: 50.965 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.6	15.8
129	10.7	9.3	13.9

Manual Integrations
APPROVED

MMDadoda
1/29/2020 12:55:50 PM



#96
1,2,3-Trichlorobenzene
Concen: 50.581 ug/l
RT: 15.61 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VD064973.D
Acq: 28 Jan 2020 10:50

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.3	141.8
145	29.5	14.6	43.8

