

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111919\
 Data File : VD064280.D
 Acq On : 19 Nov 2019 10:19
 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
 11/20/2019 9:56:44 AM

Quant Time: Nov 20 03:57:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 12 02:43:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	634872	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	899796	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	768382	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	381741	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	250460	47.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.94%	
35) Dibromofluoromethane	7.92	113	253674	49.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.22%	
50) Toluene-d8	10.34	98	949694	48.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.48%	
62) 4-Bromofluorobenzene	12.64	95	314753	46.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.30%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	251039	47.677	ug/l	98
3) Chloromethane	2.21	50	282647	50.045	ug/l	97
4) Vinyl Chloride	2.35	62	342640	56.732	ug/l	98
5) Bromomethane	2.77	94	232815	61.046	ug/l	98
6) Chloroethane	2.93	64	231711	60.041	ug/l	99
7) Trichlorofluoromethane	3.27	101	601248	61.402	ug/l	99
8) Diethyl Ether	3.71	74	132823	49.332	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	4.08	101	282067	50.398	ug/l	100
10) Methyl Iodide	4.29	142	299964	47.076	ug/l	99
11) Tert butyl alcohol	5.25	59	87757	240.631	ug/l	99
12) 1,1-Dichloroethene	4.06	96	266811	50.015	ug/l	98
13) Acrolein	3.93	56	83443	270.459	ug/l	99
14) Allyl chloride	4.71	41	429521	45.538	ug/l	95
15) Acrylonitrile	5.43	53	287919	250.840	ug/l	99
16) Acetone	4.17	43	302897	244.871	ug/l	98
17) Carbon Disulfide	4.40	76	782263	47.086	ug/l	100
18) Methyl Acetate	4.73	43	166338	48.146	ug/l	99
19) Methyl tert-butyl Ether	5.48	73	614302	48.236	ug/l	97
20) Methylene Chloride	4.96	84	274447	43.923	ug/l	96
21) trans-1,2-Dichloroethene	5.47	96	297803	49.272	ug/l	99
22) Diisopropyl ether	6.37	45	833187	47.609	ug/l	99
23) Vinyl Acetate	6.31	43	2448240	250.964	ug/l	99
24) 1,1-Dichloroethane	6.26	63	497432	48.953	ug/l	99
25) 2-Butanone	7.22	43	387992	242.785	ug/l	99
26) 2,2-Dichloropropane	7.21	77	474501	47.616	ug/l	99
27) cis-1,2-Dichloroethene	7.21	96	326943	50.442	ug/l	94
28) Bromochloromethane	7.55	49	190173	53.756	ug/l	97
29) Tetrahydrofuran	7.57	42	235596	245.370	ug/l	97
30) Chloroform	7.71	83	522801	50.298	ug/l	97
31) Cyclohexane	7.98	56	471005	45.960	ug/l	97
32) 1,1,1-Trichloroethane	7.90	97	491975	49.432	ug/l	100
36) 1,1-Dichloropropene	8.11	75	414552	49.920	ug/l	99
37) Ethyl Acetate	7.30	43	169809	48.504	ug/l	99
38) Carbon Tetrachloride	8.10	117	452969	50.977	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	520150	49.501	ug/l	96
40) Benzene	8.35	78	1123009	49.481	ug/l	98
41) Methacrylonitrile	7.53	41	97834	44.462	ug/l #	86
42) 1,2-Dichloroethane	8.43	62	326649	47.920	ug/l	99
43) Isopropyl Acetate	8.46	43	339548	47.072	ug/l	99
44) Trichloroethene	9.11	130	340956	50.054	ug/l	100
45) 1,2-Dichloropropane	9.39	63	272642	49.355	ug/l	97
46) Dibromomethane	9.48	93	147990	50.041	ug/l	98
47) Bromodichloromethane	9.67	83	394114	49.474	ug/l	99
48) Methyl methacrylate	9.46	41	156743	44.439	ug/l	94
49) 1,4-Dioxane	9.47	88	34300	965.707	ug/l	94
51) 4-Methyl-2-Pentanone	10.23	43	826931	239.060	ug/l	99
52) Toluene	10.41	92	728904	48.841	ug/l	98
53) t-1,3-Dichloropropene	10.63	75	383437	48.046	ug/l	95
54) cis-1,3-Dichloropropene	10.09	75	449508	48.268	ug/l	99
55) 1,1,2-Trichloroethane	10.80	97	202411	50.453	ug/l	98
56) Ethyl methacrylate	10.67	69	272339	48.527	ug/l	95
57) 1,3-Dichloropropane	10.95	76	351300	50.209	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.94	63	564456	248.295	ug/l	99
59) 2-Hexanone	10.99	43	582316	236.622	ug/l	98
60) Dibromochloromethane	11.14	129	282727	50.504	ug/l	100
61) 1,2-Dibromoethane	11.25	107	204821	50.972	ug/l	97
64) Tetrachloroethene	10.88	164	295534	50.009	ug/l	97
65) Chlorobenzene	11.68	112	781735	50.031	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.75	131	298776	50.288	ug/l	99
67) Ethyl Benzene	11.75	91	1417343	50.148	ug/l	100
68) m/p-Xylenes	11.86	106	1083811	100.044	ug/l	100
69) o-Xylene	12.18	106	496665	49.433	ug/l	100
70) Styrene	12.20	104	869308	49.567	ug/l	99
71) Bromoform	12.37	173	170315	50.371	ug/l	98
73) Isopropylbenzene	12.48	105	1378566	49.200	ug/l	99
74) N-amyl acetate	12.30	43	307259	46.437	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.74	83	208177	49.307	ug/l	98
76) 1,2,3-Trichloropropane	12.80	75	144936m	47.137	ug/l	
77) Bromobenzene	12.77	156	333981	49.063	ug/l	98
78) n-propylbenzene	12.83	91	1582881	49.445	ug/l	99
79) 2-Chlorotoluene	12.91	91	873381	48.323	ug/l	100
80) 1,3,5-Trimethylbenzene	12.97	105	1112791	48.332	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.54	75	73746	47.642	ug/l	96
82) 4-Chlorotoluene	13.01	91	915689	48.574	ug/l	99
83) tert-Butylbenzene	13.23	119	978966	48.220	ug/l	99
84) 1,2,4-Trimethylbenzene	13.28	105	1115409	49.071	ug/l	100
85) sec-Butylbenzene	13.41	105	1355617	49.716	ug/l	99
86) p-Isopropyltoluene	13.53	119	1288485	49.704	ug/l	99
87) 1,3-Dichlorobenzene	13.53	146	626299	49.564	ug/l	100
88) 1,4-Dichlorobenzene	13.60	146	621119	50.364	ug/l	100
89) n-Butylbenzene	13.86	91	1176560	50.237	ug/l	99
90) Hexachloroethane	14.12	117	235416	49.139	ug/l	100
91) 1,2-Dichlorobenzene	13.90	146	541110	50.594	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.52	75	33803	44.779	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	415631	50.377	ug/l	100
94) Hexachlorobutadiene	15.28	225	267777	50.249	ug/l	99
95) Naphthalene	15.41	128	671275	49.634	ug/l	100
96) 1,2,3-Trichlorobenzene	15.61	180	353758	50.442	ug/l	99

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

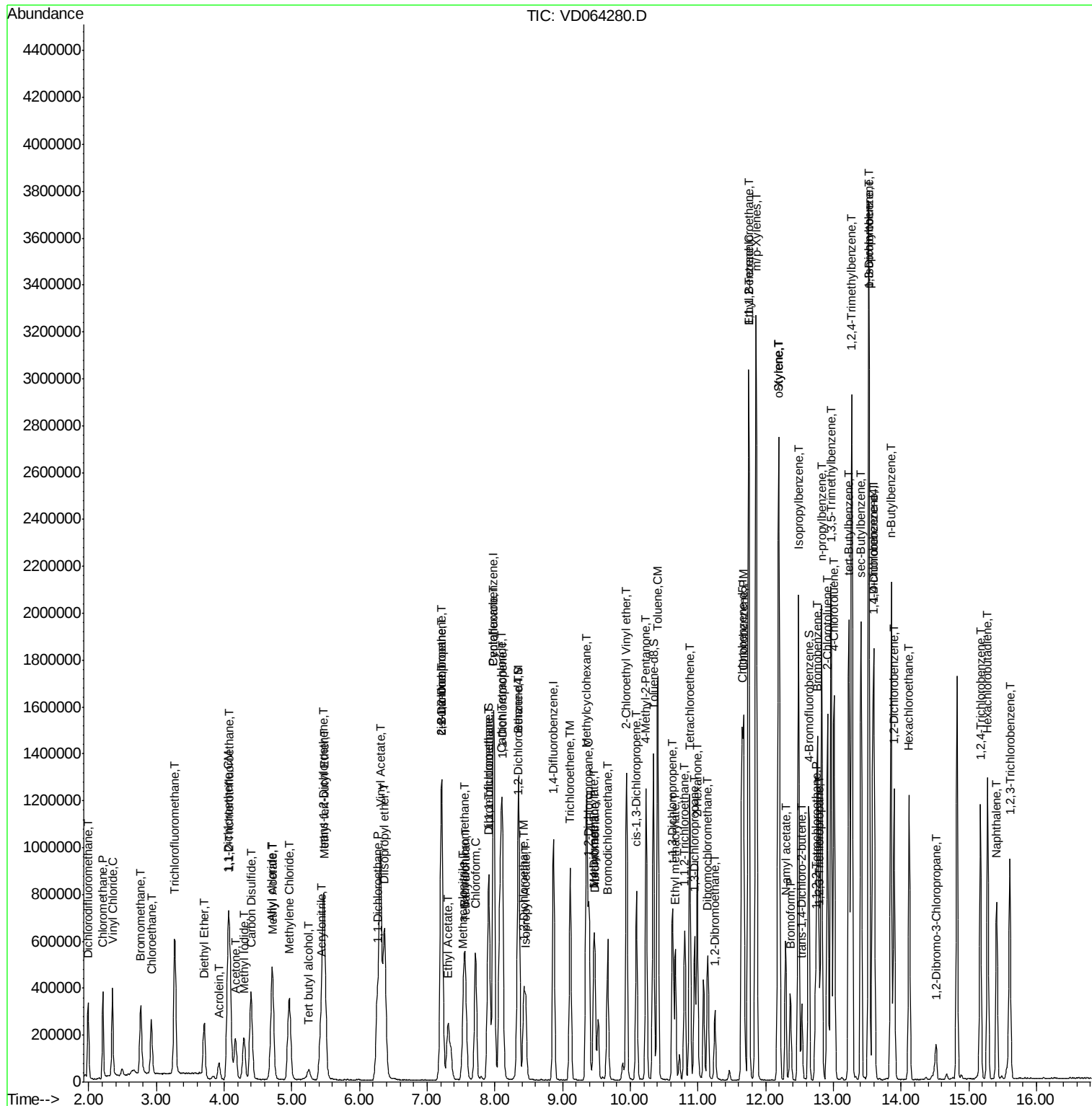
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111919\
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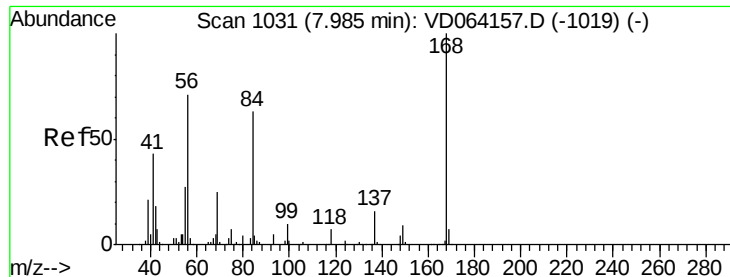
Instrument :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 634872

Ion Ratio Lower Upper

168 100

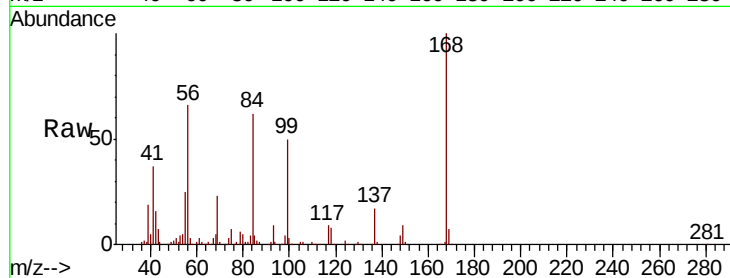
99 49.9 41.6 62.4

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

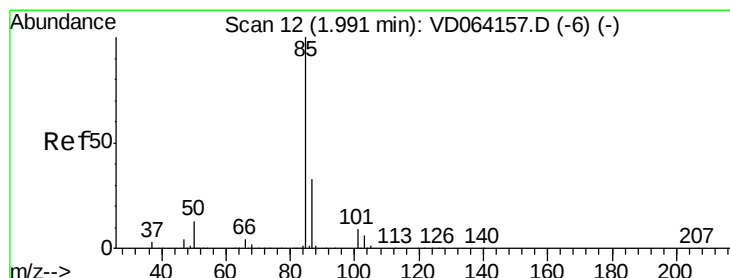
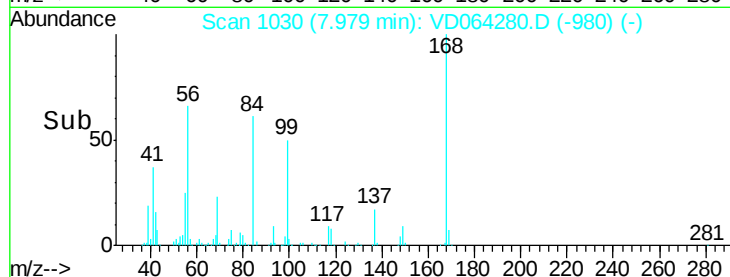
100000

50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 47.677 ug/l

RT: 1.99 min Scan# 12

Delta R.T. -0.00 min

Lab File: VD064280.D

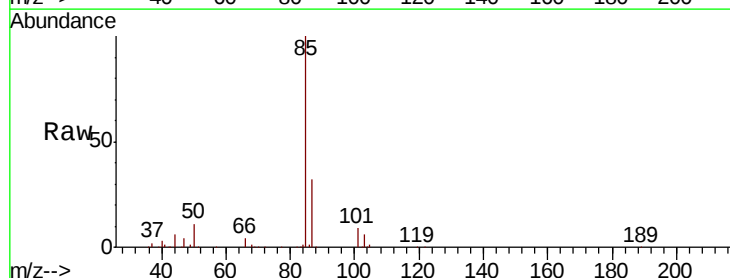
Acq: 19 Nov 2019 10:19

Tgt Ion: 85 Resp: 251039

Ion Ratio Lower Upper

85 100

87 31.7 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

200000

150000

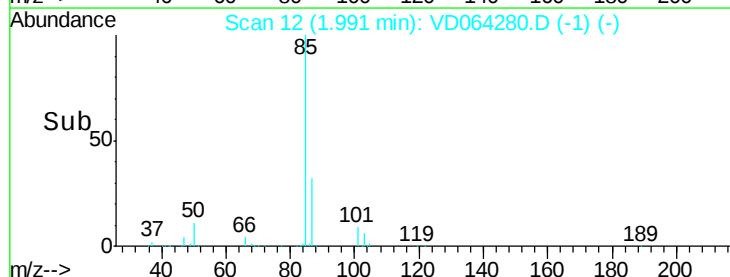
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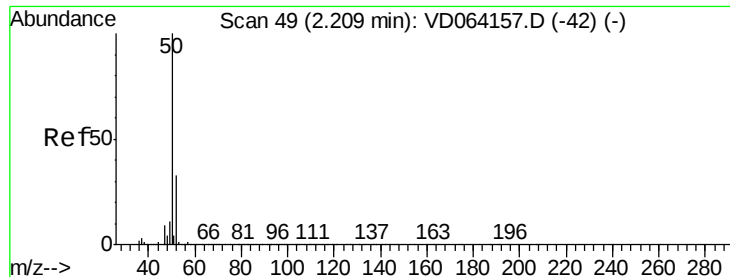
50000

0

1.90 2.00 2.10

Time-->





#3

Chloromethane

Concen: 50.045 ug/l

RT: 2.21 min Scan# 49

Delta R.T. -0.00 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 282647

Ion Ratio Lower Upper

50 100

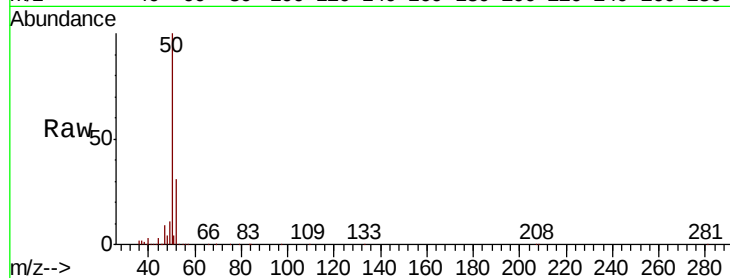
52 31.3 26.2 39.4

Manual Integrations

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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

2.21

200000

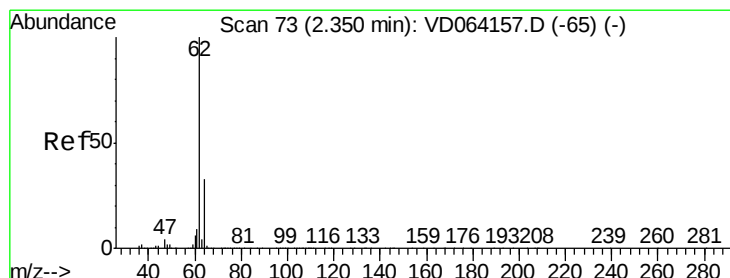
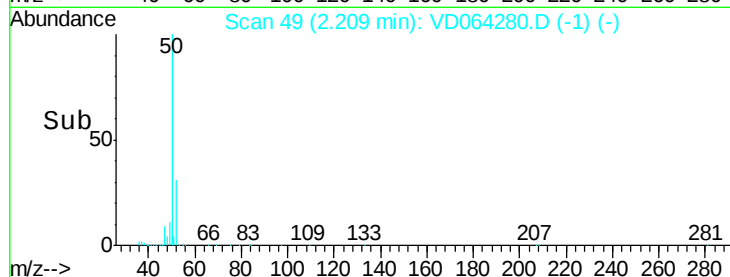
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 56.732 ug/l

RT: 2.35 min Scan# 73

Delta R.T. -0.00 min

Lab File: VD064280.D

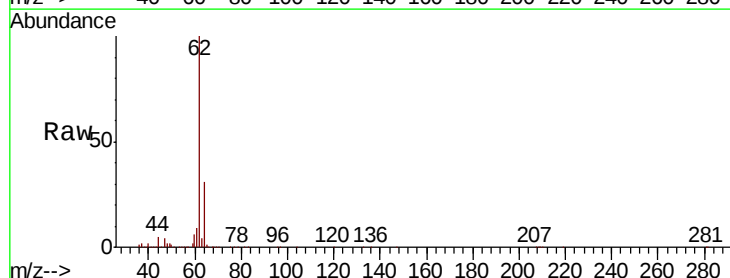
Acq: 19 Nov 2019 10:19

Tgt Ion: 62 Resp: 342640

Ion Ratio Lower Upper

62 100

64 31.4 26.2 39.2



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC

2.35

250000

200000

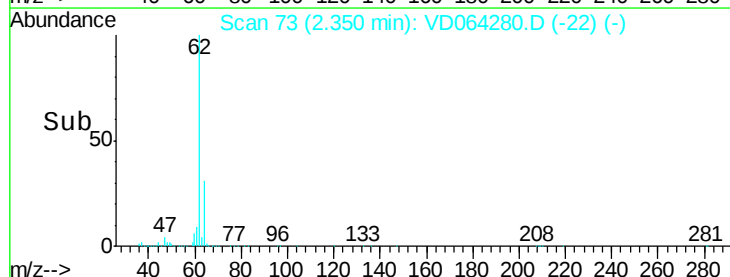
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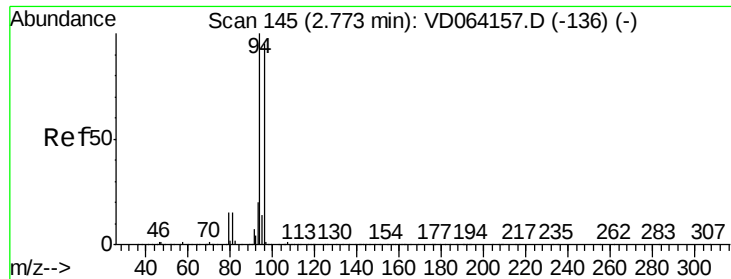
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50000

0

Time-->





#5

Bromomethane

Concen: 61.046 ug/l

RT: 2.77 min Scan# 144

Delta R.T. -0.01 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 232815

Ion Ratio Lower Upper

94 100

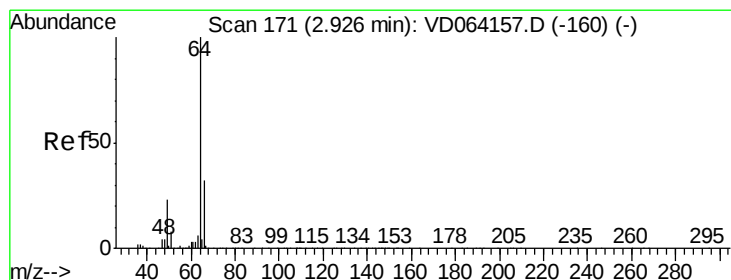
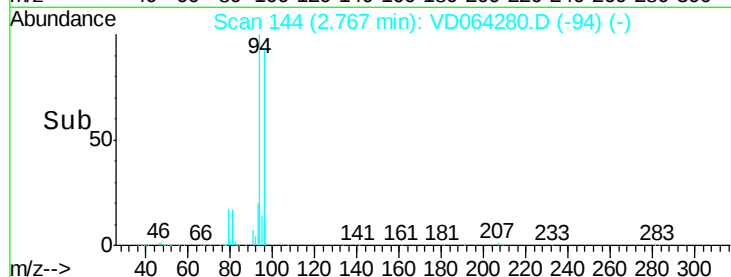
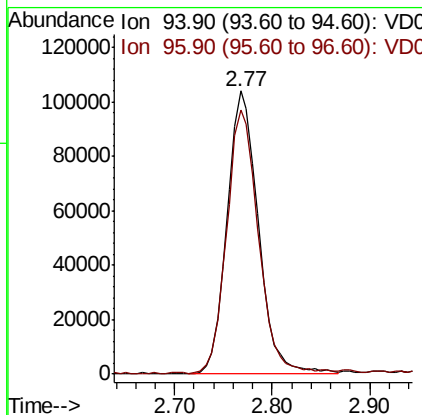
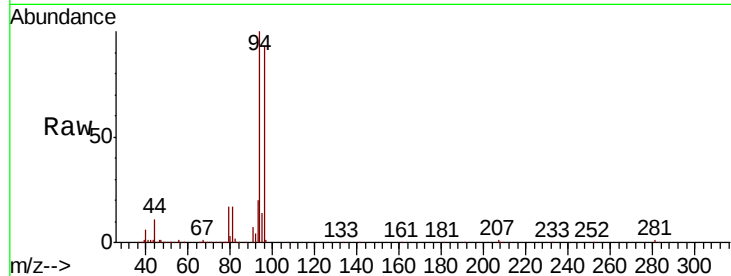
96 93.0 76.2 114.4

Manual Integrations

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#6

Chloroethane

Concen: 60.041 ug/l

RT: 2.93 min Scan# 171

Delta R.T. -0.00 min

Lab File: VD064280.D

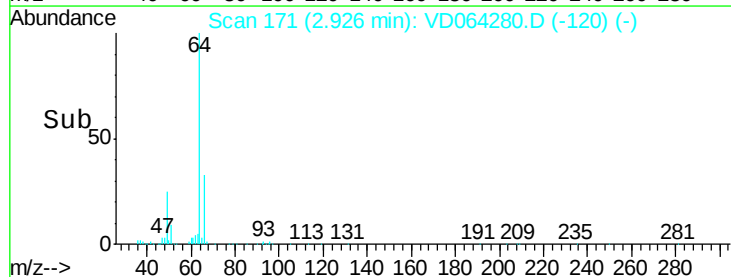
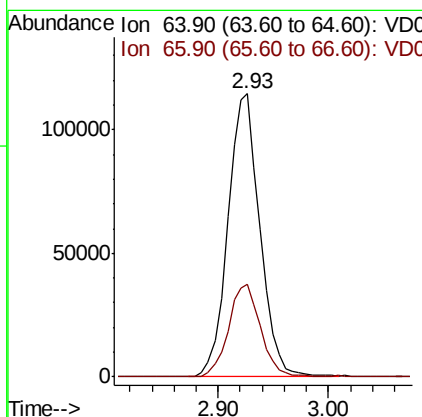
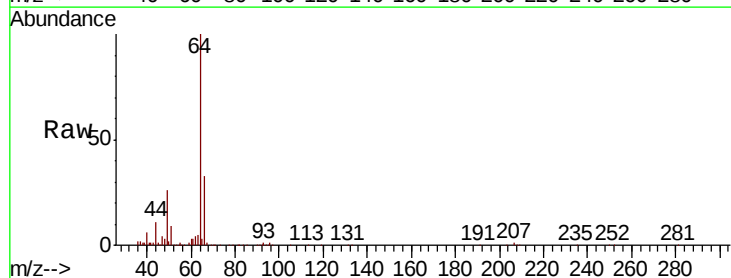
Acq: 19 Nov 2019 10:19

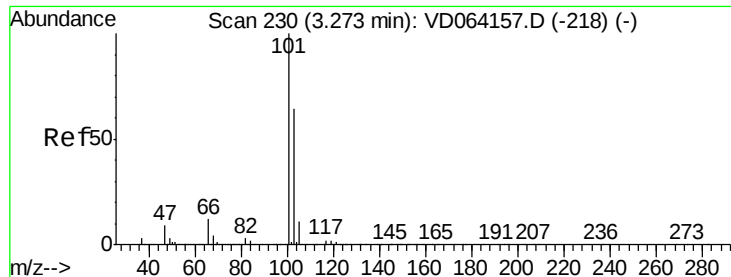
Tgt Ion: 64 Resp: 231711

Ion Ratio Lower Upper

64 100

66 32.5 25.5 38.3





#7

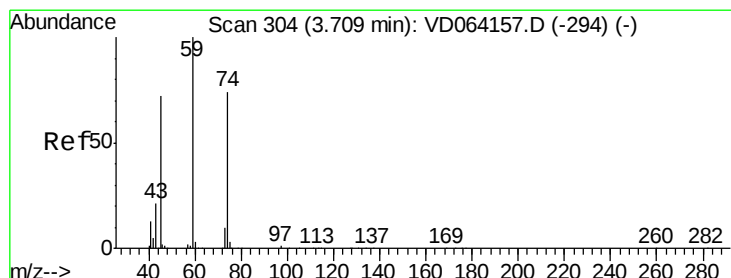
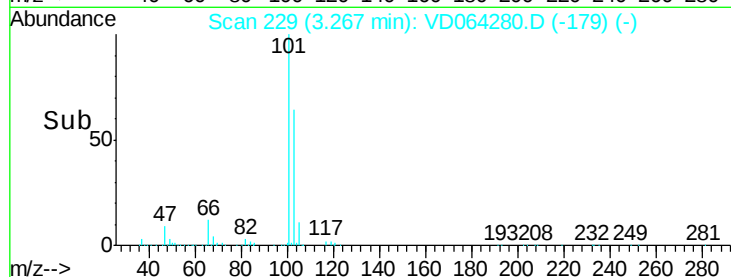
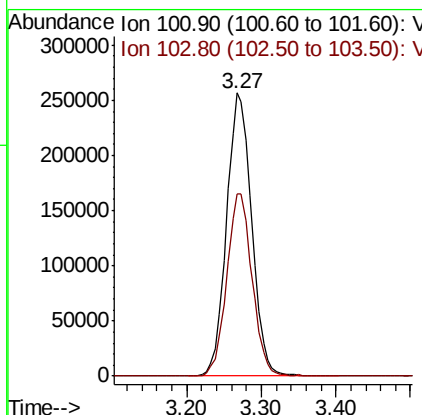
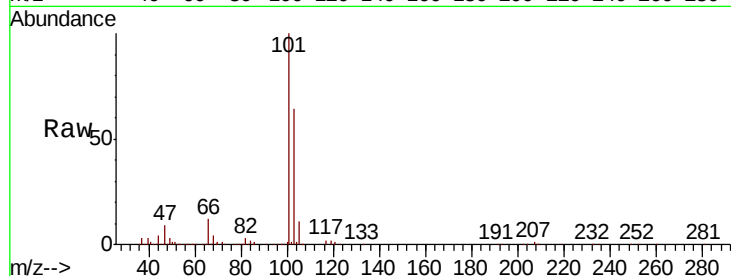
Trichlorofluoromethane
Concen: 61.402 ug/l
RT: 3.27 min Scan# 229
Delta R.T. -0.01 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

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Tot Ion	Ratio	Lower	Upper
101	100		
103	64.4	50.8	76.2

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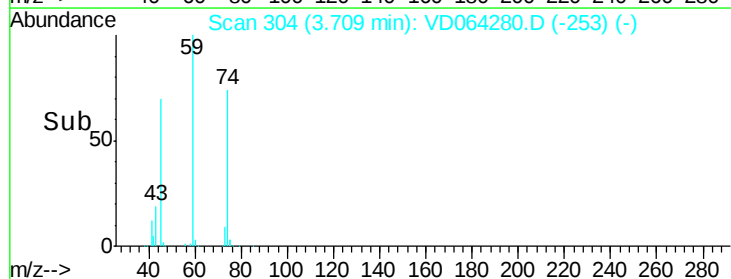
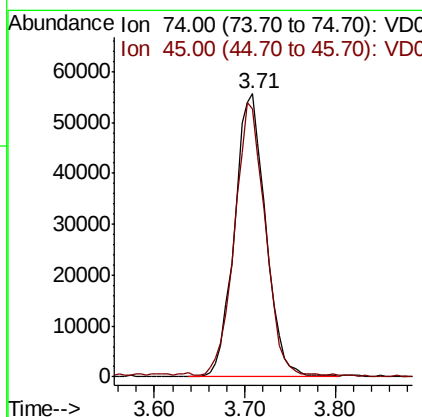
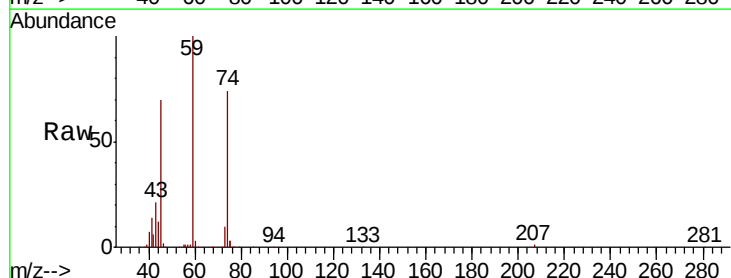
MMDadoda
11/20/2019 9:56:44 AM



#8

Diethyl Ether
Concen: 49.332 ug/l
RT: 3.71 min Scan# 304
Delta R.T. -0.00 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Tgt Ion	Ratio	Lower	Upper
74	100		
45	93.1	47.9	143.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.398 ug/l

RT: 4.08 min Scan# 367

Delta R.T. -0.01 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

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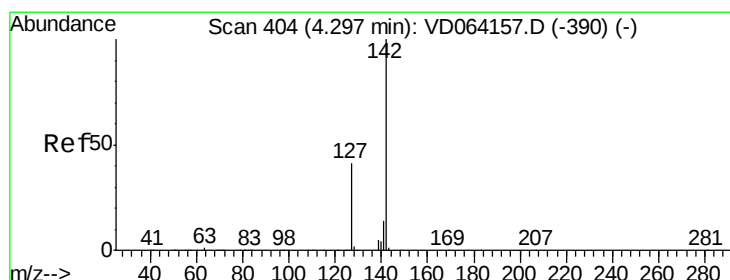
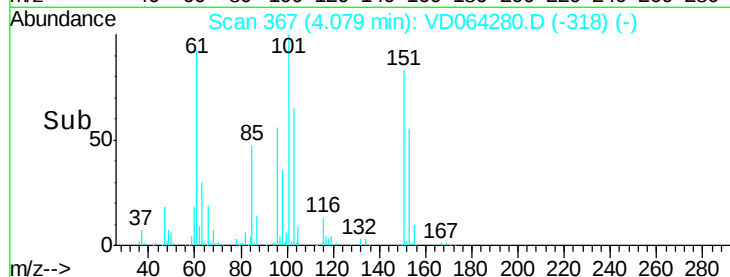
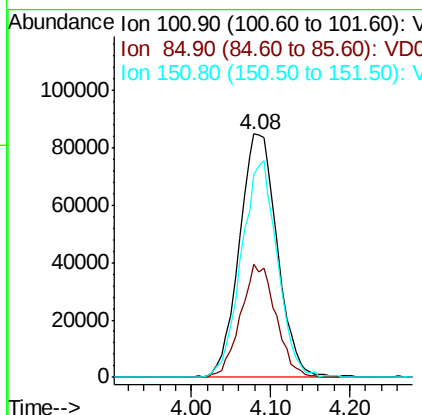
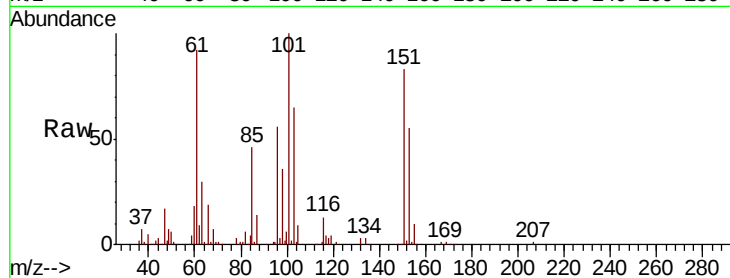
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	282067
Ion Ratio	Lower	Upper	
101	100		
85	43.4	34.4	51.6
151	84.8	68.1	102.1

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#10

Methyl Iodide

Concen: 47.076 ug/l

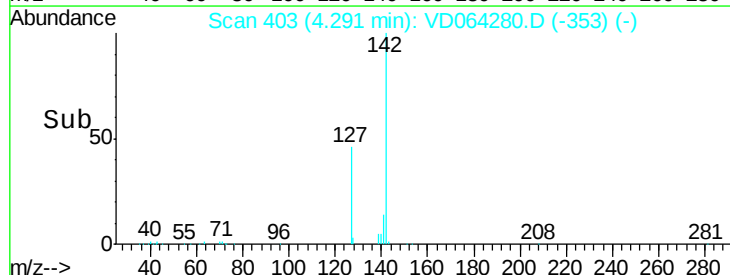
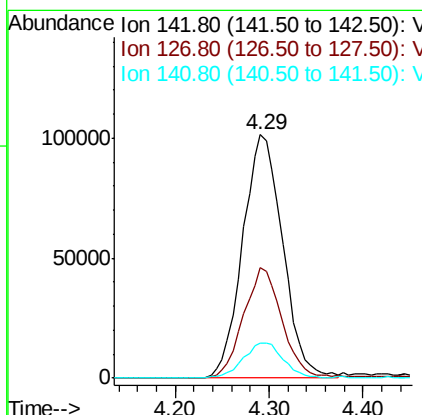
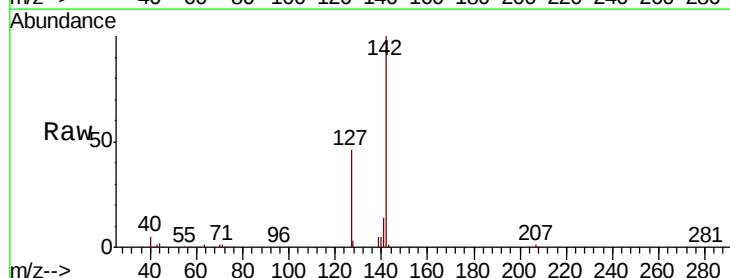
RT: 4.29 min Scan# 403

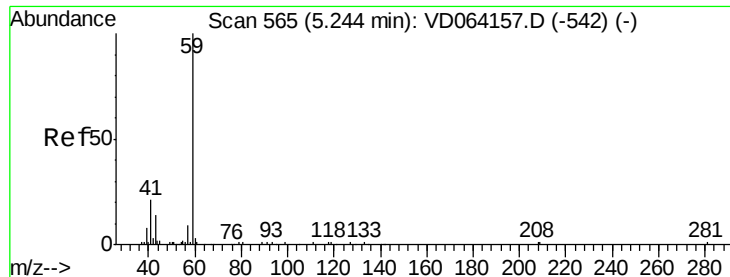
Delta R.T. -0.01 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Tgt Ion:	142	Resp:	299964
Ion Ratio	Lower	Upper	
142	100		
127	43.7	34.4	51.6
141	14.4	11.2	16.8





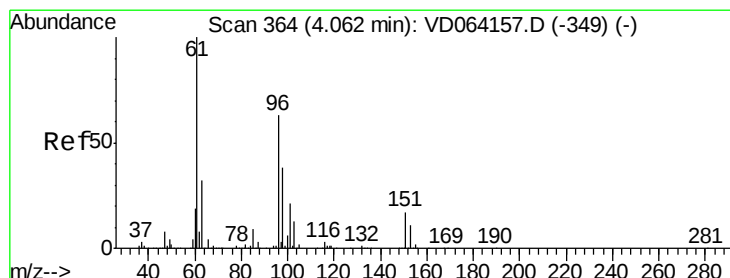
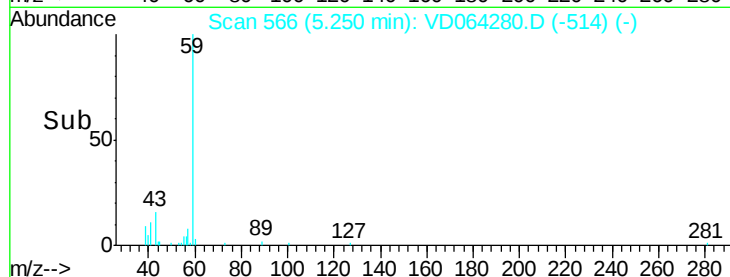
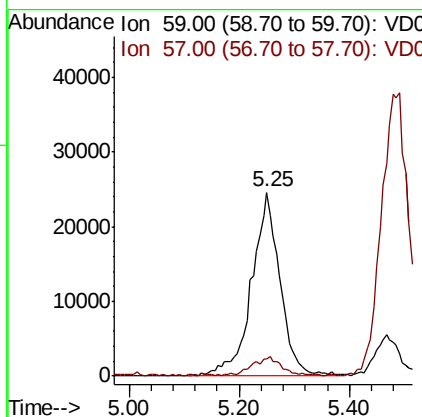
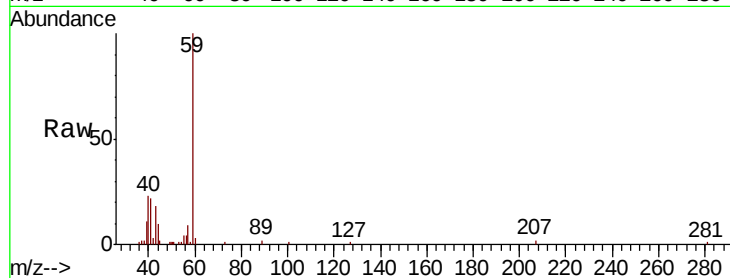
#11
Tert butyl alcohol
Concen: 240.631 ug/l
RT: 5.25 min Scan# 566
Delta R.T. 0.01 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
59	59	100	87757		
57	57	11.3		9.4	14.2

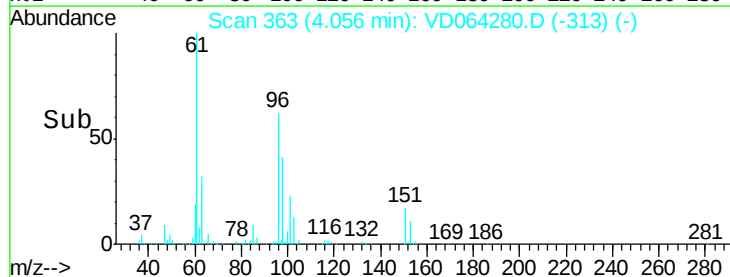
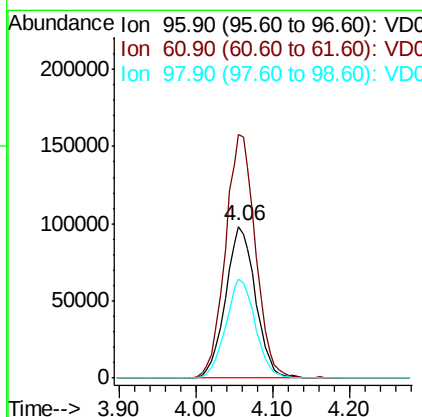
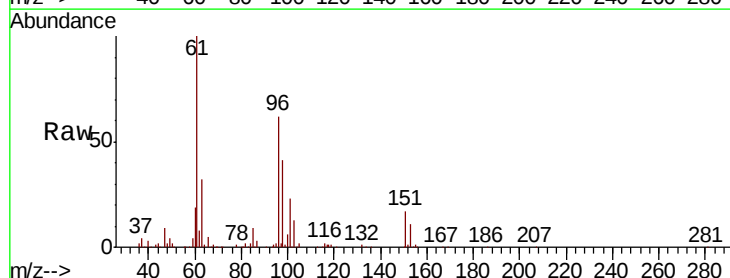
Manual Integrations
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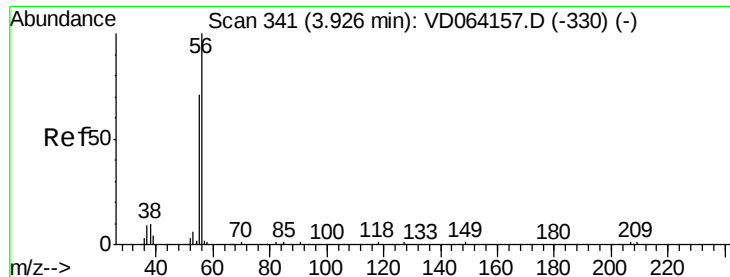
MMDadoda
11/20/2019 9:56:44 AM



#12
1,1-Dichloroethene
Concen: 50.015 ug/l
RT: 4.06 min Scan# 363
Delta R.T. -0.01 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
96	96	100	266811		
61	61	160.3		127.4	191.2
98	98	65.1		48.1	72.1





#13

Acrolein

Concen: 270.459 ug/l

RT: 3.93 min Scan# 341

Delta R.T. -0.00 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 83443

Ion Ratio Lower Upper

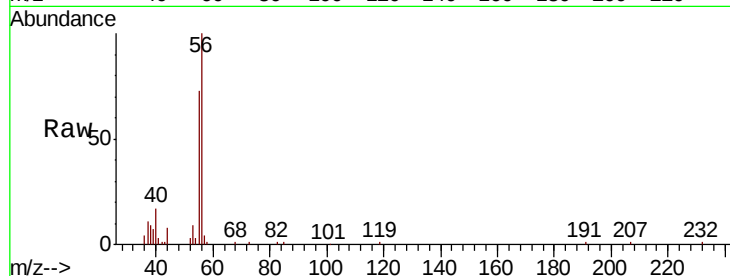
56 100

55 69.0 56.1 84.1

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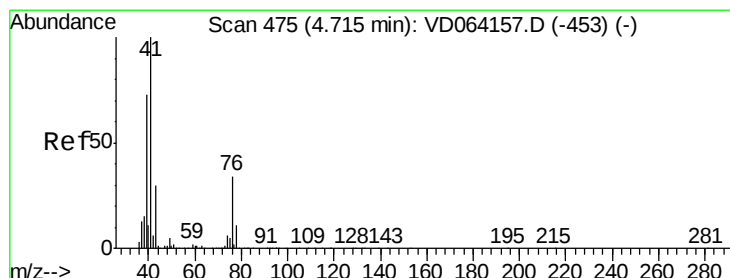
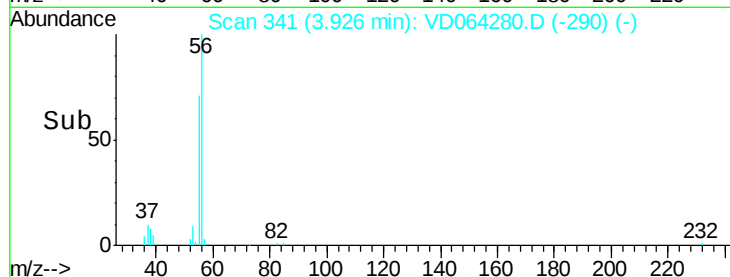
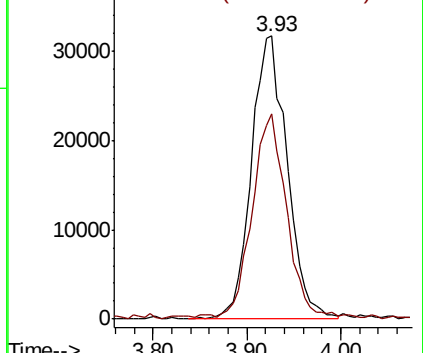
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Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 45.538 ug/l

RT: 4.71 min Scan# 474

Delta R.T. -0.01 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

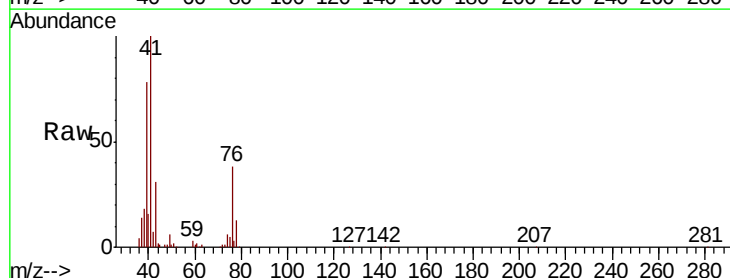
Tgt Ion: 41 Resp: 429521

Ion Ratio Lower Upper

41 100

39 75.8 57.5 86.3

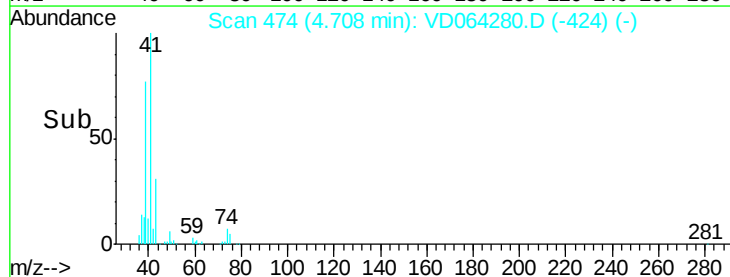
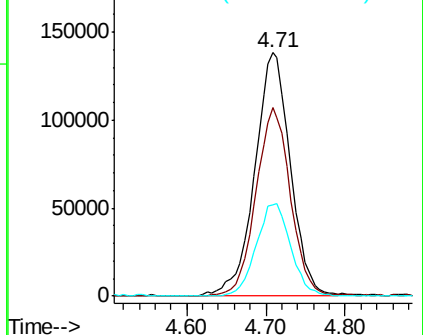
76 37.4 26.8 40.2



Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC





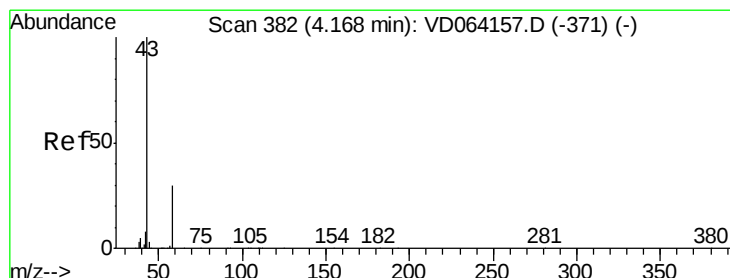
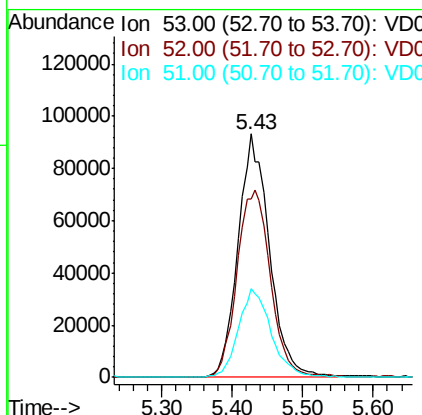
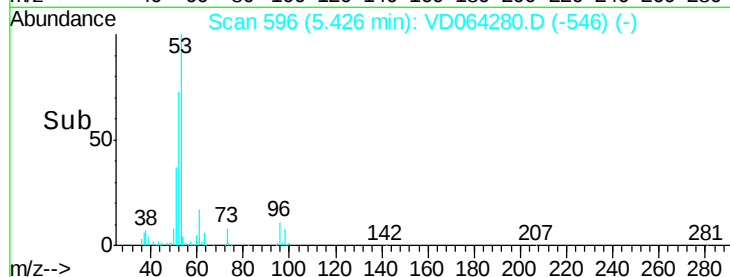
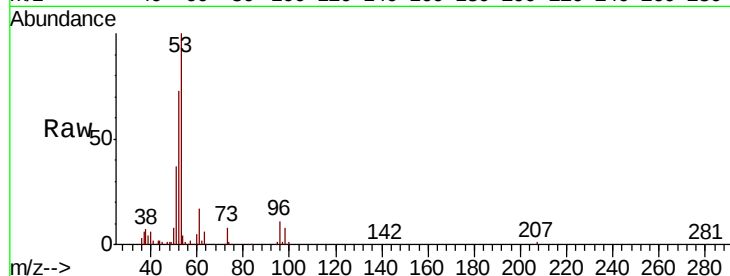
#15
Acrylonitrile
Concen: 250.840 ug/l
RT: 5.43 min Scan# 596
Delta R.T. -0.01 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
53	100		
52	81.8	66.7	100.1
51	38.0	30.6	46.0

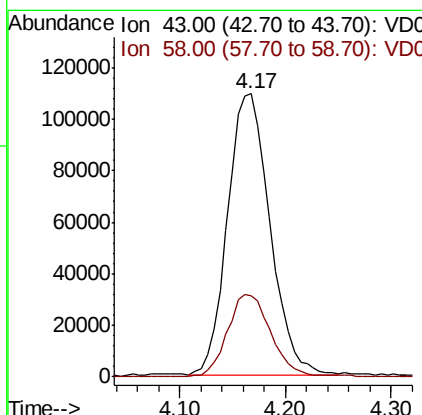
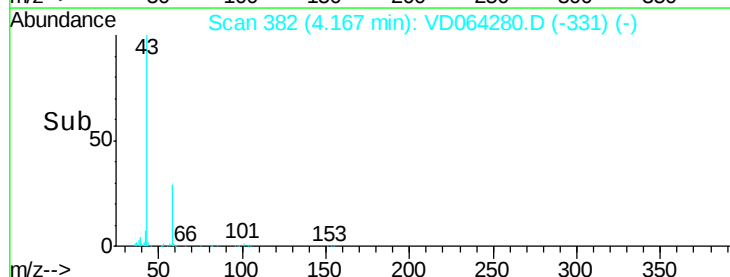
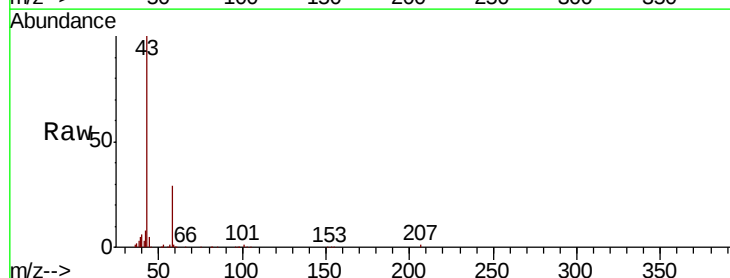
Manual Integrations
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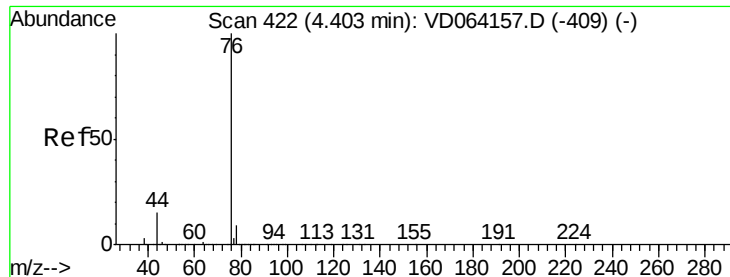
MMDadoda
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#16
Acetone
Concen: 244.871 ug/l
RT: 4.17 min Scan# 382
Delta R.T. -0.00 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Tgt Ion	Ratio	Lower	Upper
43	100		
58	29.0	24.1	36.1





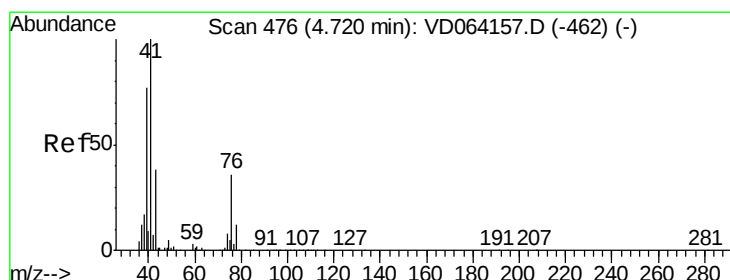
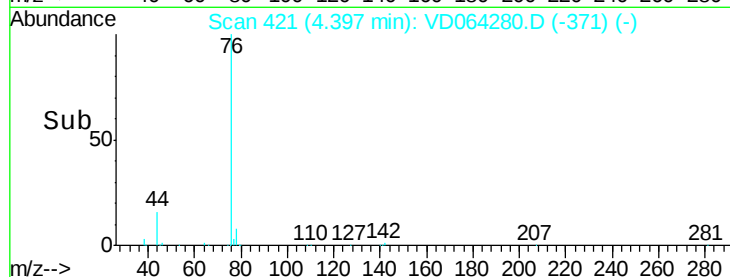
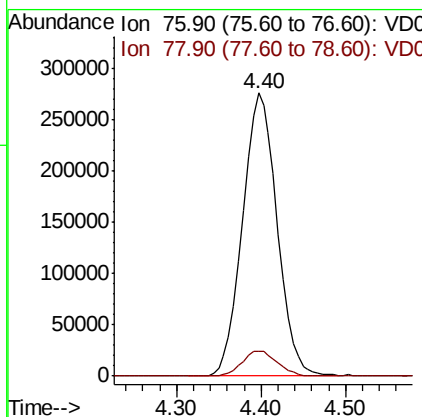
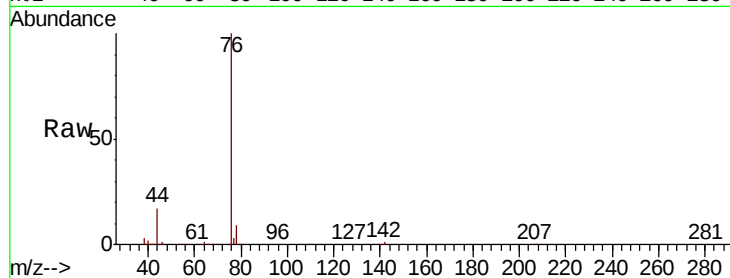
#17
Carbon Disulfide
Concen: 47.086 ug/l
RT: 4.40 min Scan# 421
Delta R.T. -0.01 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.2	10.8

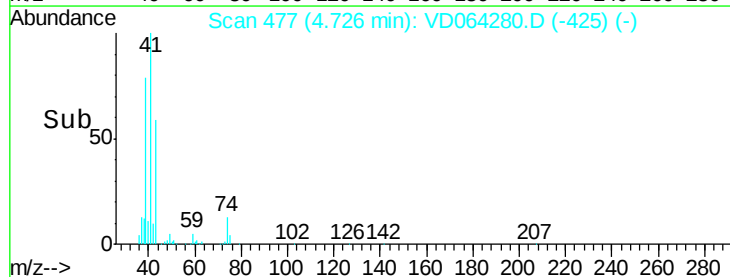
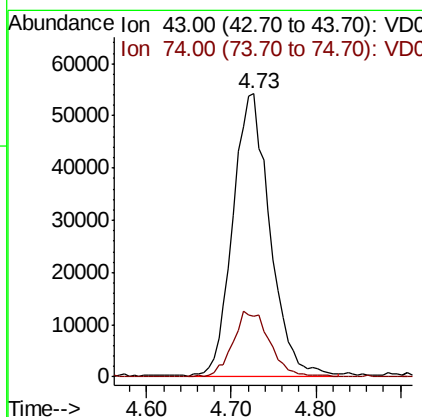
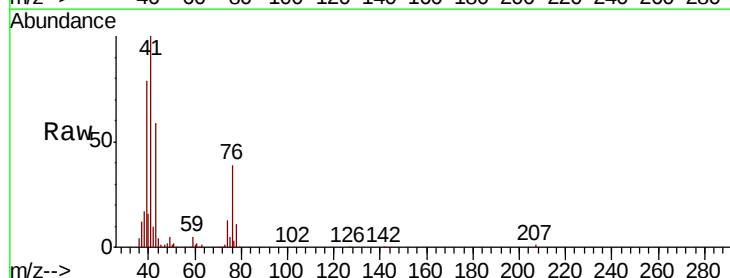
Manual Integrations
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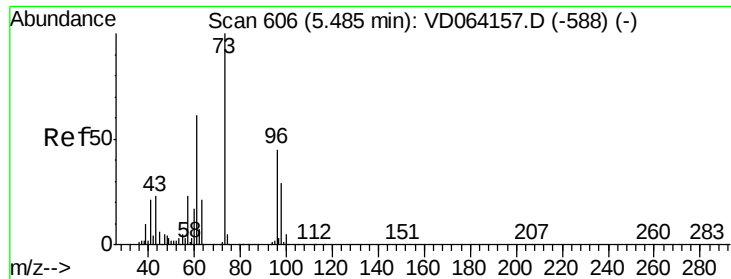
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#18
Methyl Acetate
Concen: 48.146 ug/l
RT: 4.73 min Scan# 477
Delta R.T. 0.01 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.7	18.4	27.6





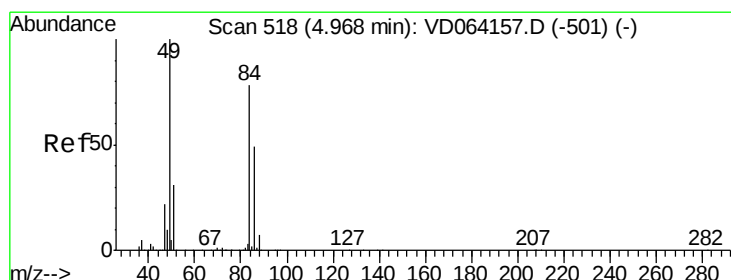
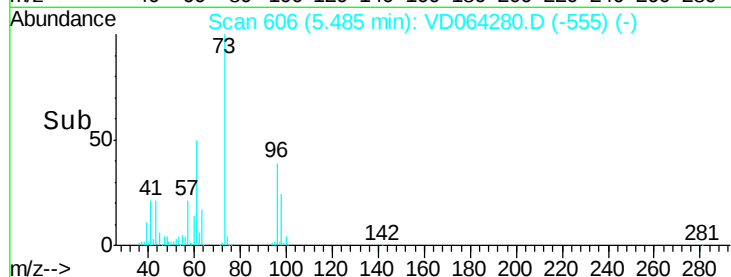
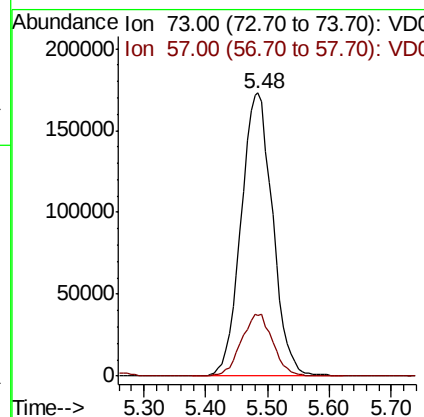
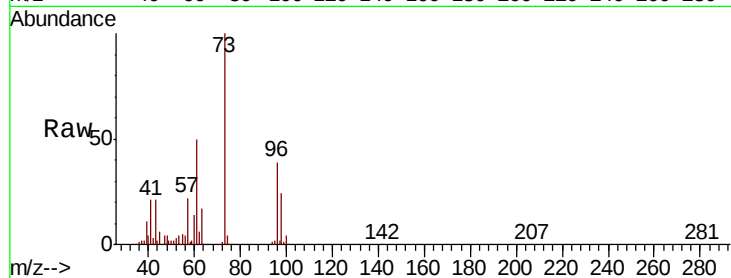
#19
Methvl tert-butvl Ether
Concen: 48.236 ug/l
RT: 5.48 min Scan# 606
Delta R.T. -0.00 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 614302
Ion Ratio Lower Upper
73 100
57 21.5 18.4 27.6

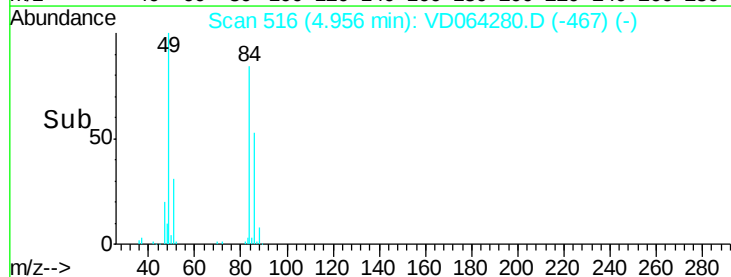
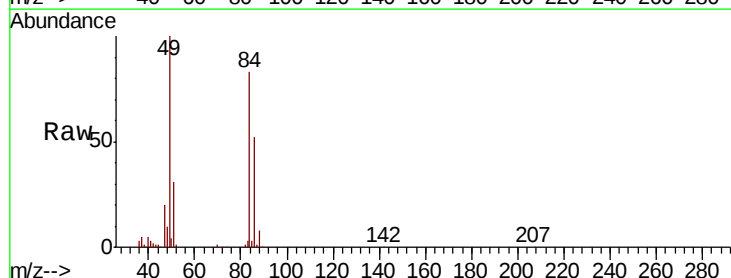
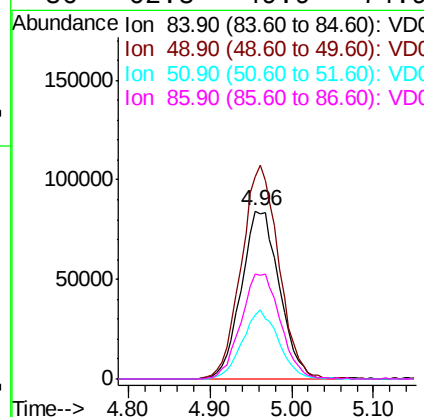
Manual Integrations
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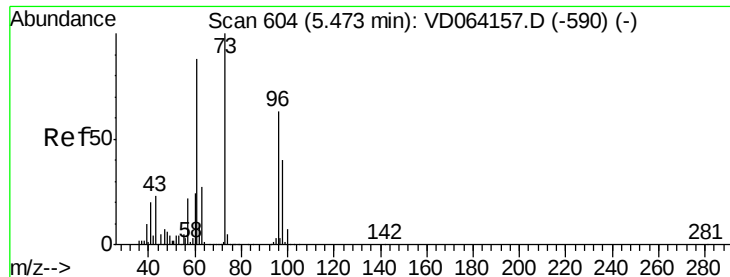
MMDadoda
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#20
Methylene Chloride
Concen: 43.923 ug/l
RT: 4.96 min Scan# 516
Delta R.T. -0.01 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Tgt Ion: 84 Resp: 274447
Ion Ratio Lower Upper
84 100
49 120.4 102.1 153.1
51 37.7 32.2 48.2
86 62.8 49.9 74.9





#21

trans-1,2-Dichloroethene

Concen: 49.272 ug/l

RT: 5.47 min Scan# 603

Delta R.T. -0.01 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 297803

Ion Ratio Lower Upper

96 100

61 138.2 111.8 167.6

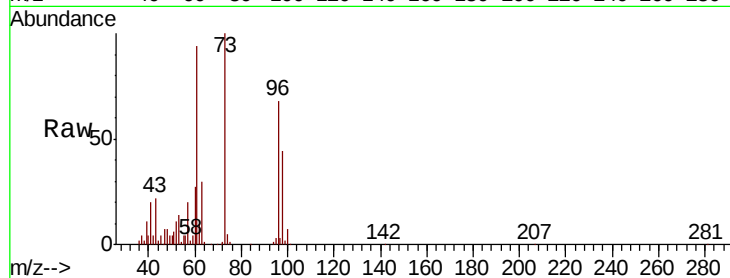
98 64.4 50.3 75.5

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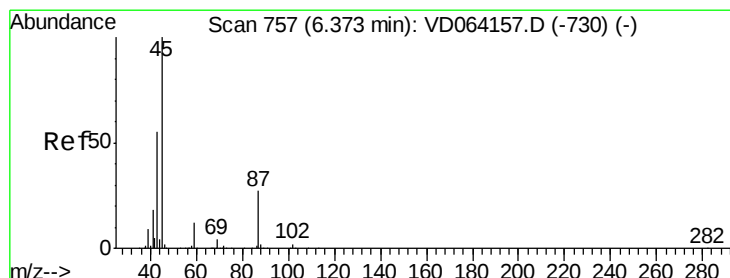
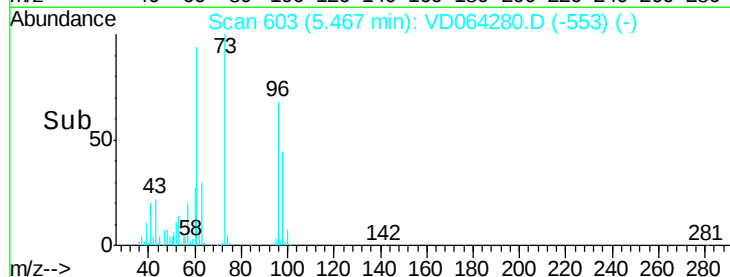
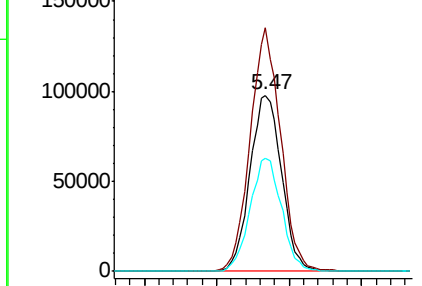
11/20/2019 9:56:44 AM



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC



#22

Diisopropyl ether

Concen: 47.609 ug/l

RT: 6.37 min Scan# 756

Delta R.T. -0.01 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Tgt Ion: 45 Resp: 833187

Ion Ratio Lower Upper

45 100

43 55.2 44.4 66.6

87 28.7 21.9 32.9

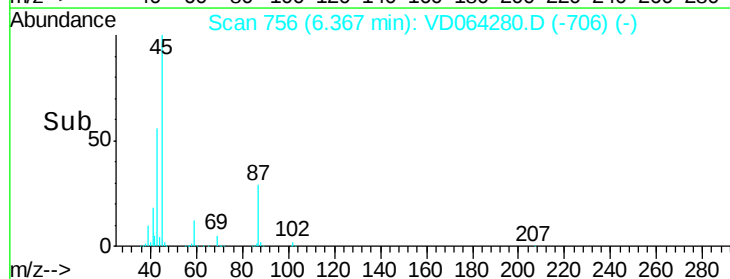
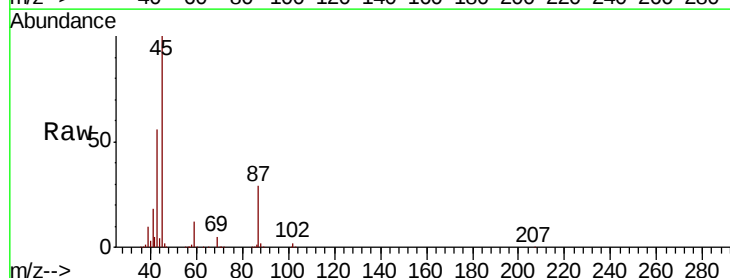
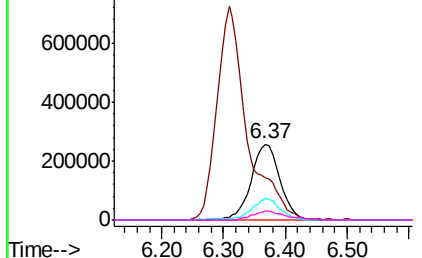
59 11.6 9.4 14.2

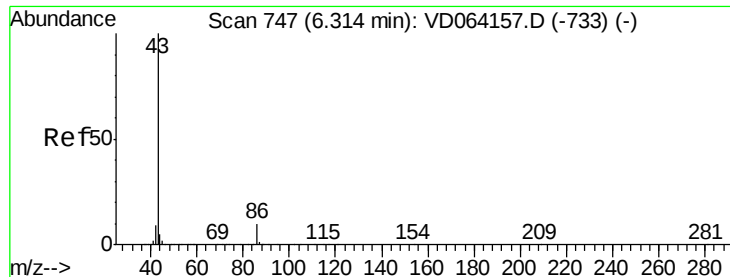
Abundance Ion 45.00 (44.70 to 45.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 59.00 (58.70 to 59.70): VDC





#23

Vinyl Acetate

Concen: 250.964 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.01 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 2448240

Ion Ratio Lower Upper

43 100

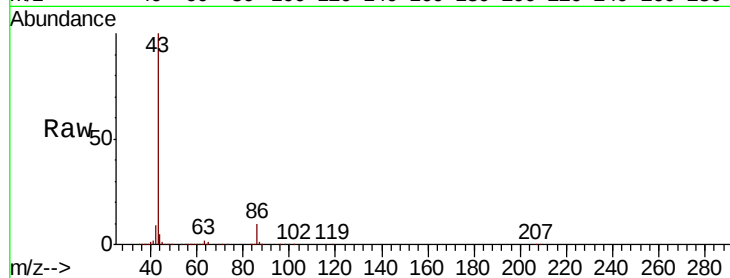
86 10.5 8.2 12.2

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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

800000

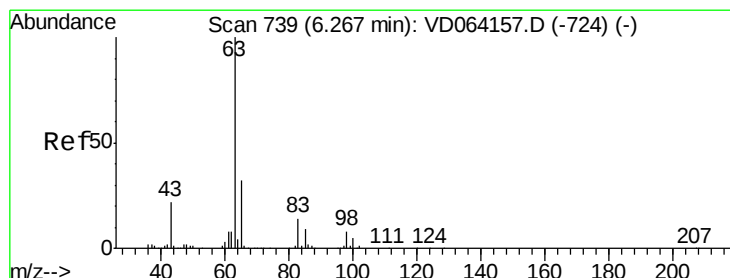
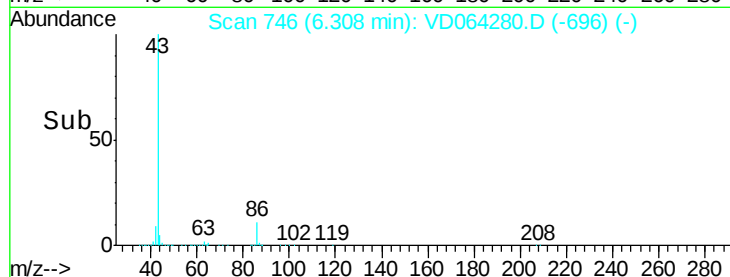
600000

400000

200000

0

Time-->



#24

1,1-Dichloroethane

Concen: 48.953 ug/l

RT: 6.26 min Scan# 738

Delta R.T. -0.01 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

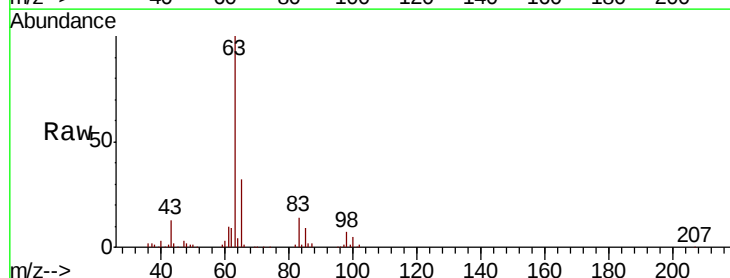
Tgt Ion: 63 Resp: 497432

Ion Ratio Lower Upper

63 100

98 7.3 3.8 11.4

100 4.8 2.4 7.2



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

200000

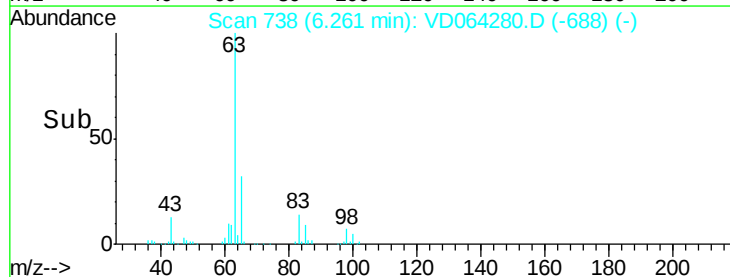
150000

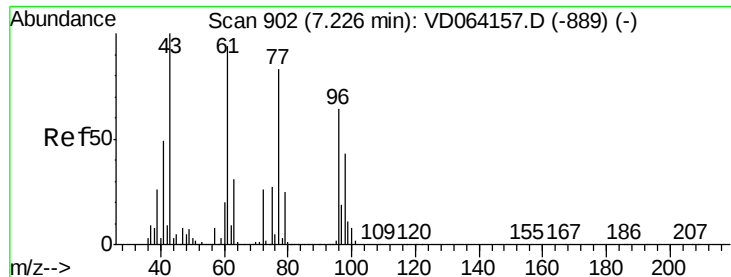
100000

50000

0

Time-->





#25

2-Butanone

Concen: 242.785 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.01 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 387992

Ion Ratio Lower Upper

43 100

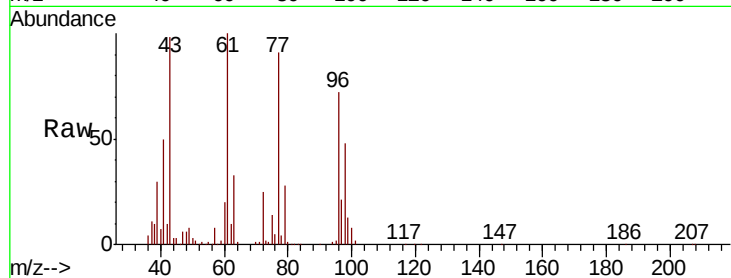
72 25.4 20.6 30.8

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

150000

100000

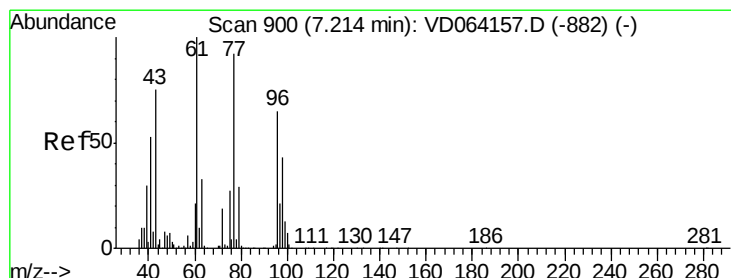
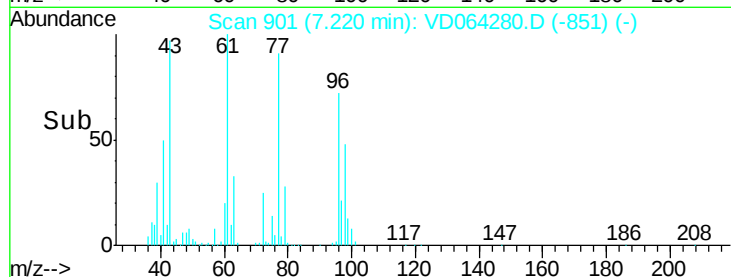
50000

0

7.22

7.10 7.15 7.20 7.25 7.30

Time-->



#26

2,2-Dichloropropane

Concen: 47.616 ug/l

RT: 7.21 min Scan# 899

Delta R.T. -0.01 min

Lab File: VD064280.D

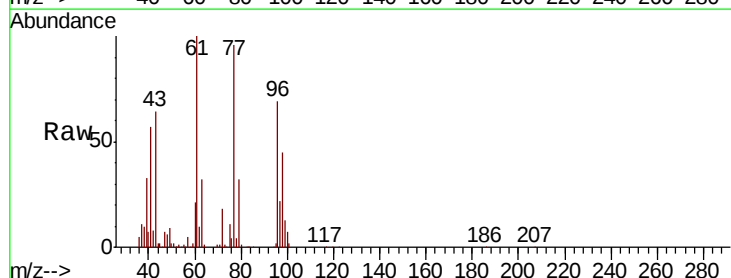
Acq: 19 Nov 2019 10:19

Tgt Ion: 77 Resp: 474501

Ion Ratio Lower Upper

77 100

97 22.7 11.1 33.3



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC

150000

100000

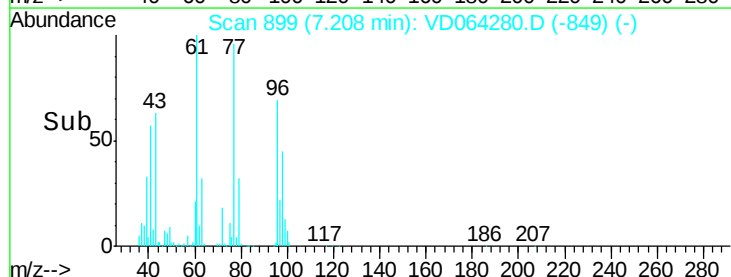
50000

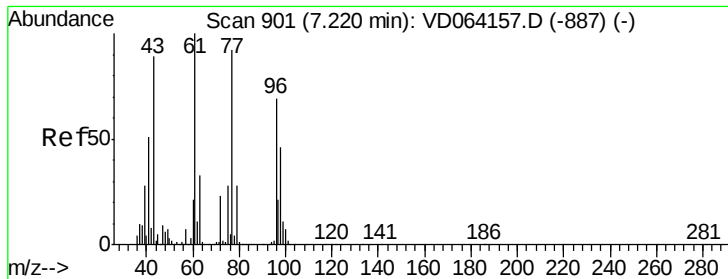
0

7.21

7.10 7.20 7.30

Time-->





#27

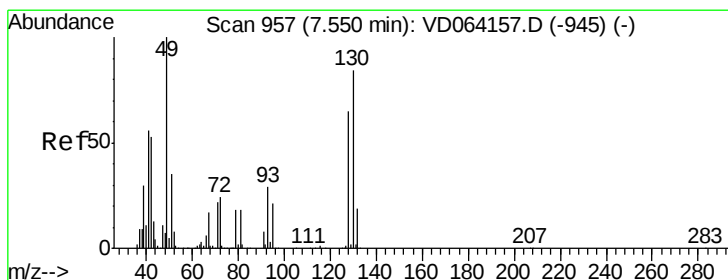
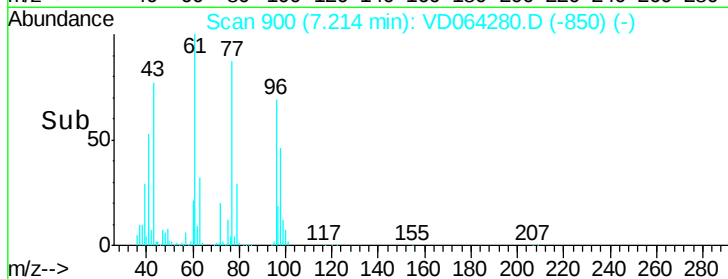
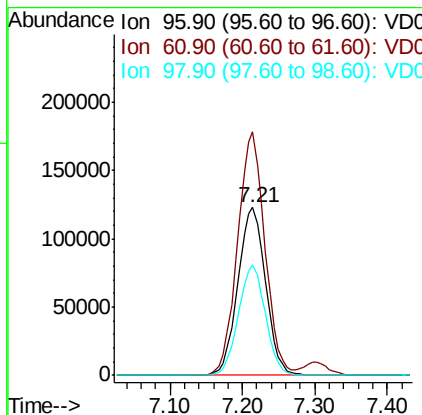
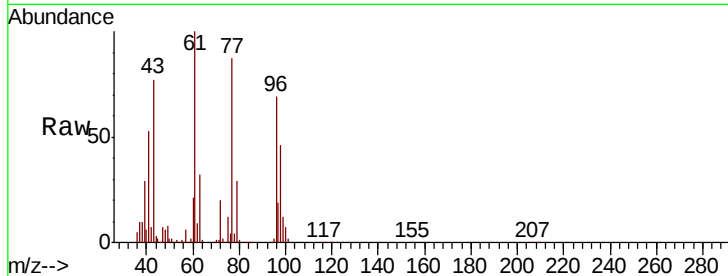
cis-1,2-Dichloroethene
Concen: 50.442 ug/l
RT: 7.21 min Scan# 900
Delta R.T. -0.01 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100				
61	142.2	0.0	301.4		
98	64.1	0.0	133.2		

Manual Integrations
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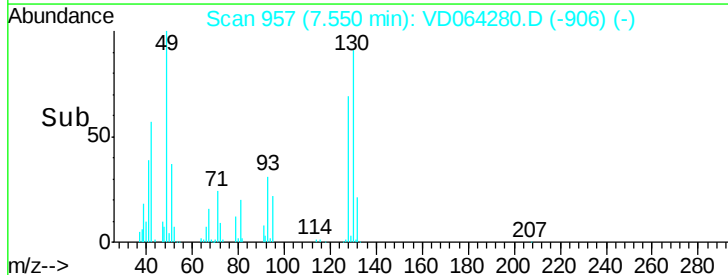
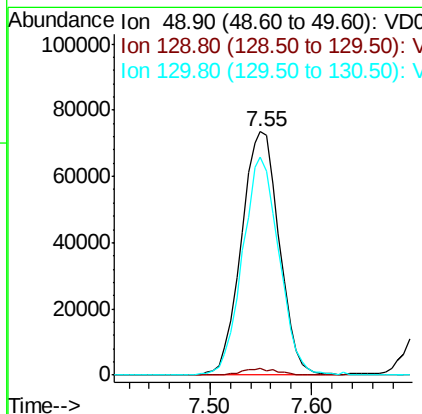
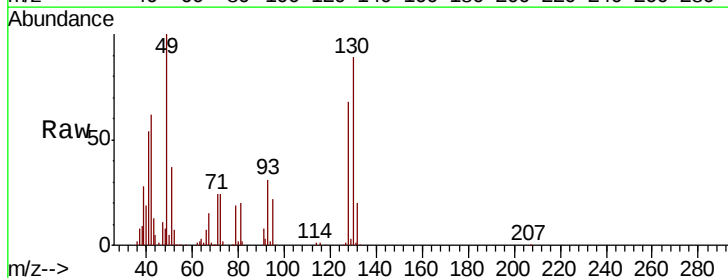
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11/20/2019 9:56:44 AM

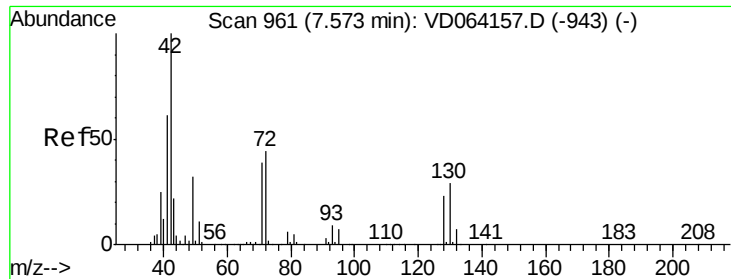


#28

Bromochloromethane
Concen: 53.756 ug/l
RT: 7.55 min Scan# 957
Delta R.T. -0.00 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
49	100				
129	2.5	0.0	4.4		
130	86.6	66.8	100.2		





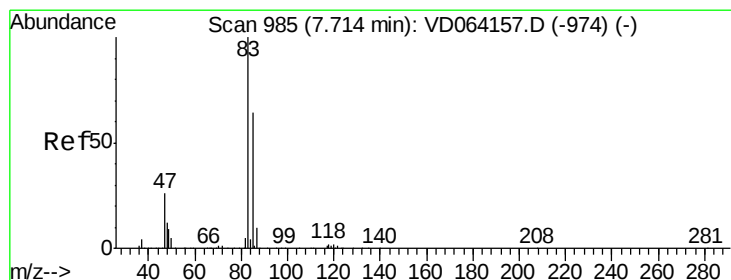
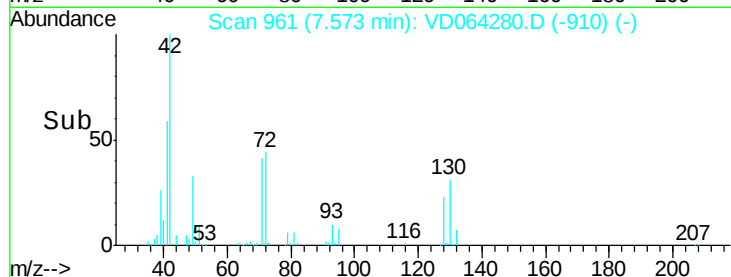
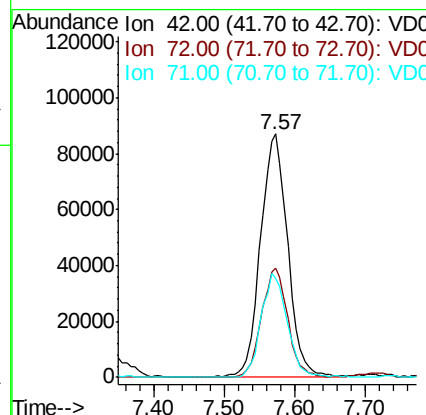
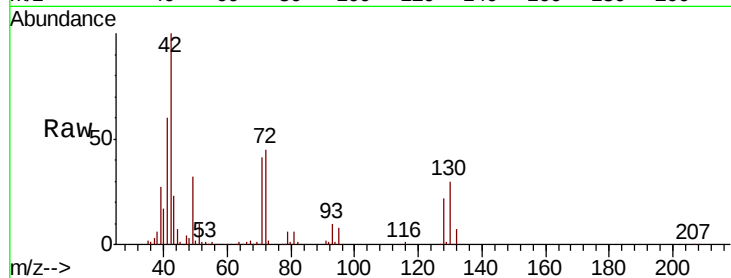
#29
Tetrahydrofuran
Concen: 245.370 ug/l
RT: 7.57 min Scan# 961
Delta R.T. -0.00 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.1	33.4	50.2
71	40.6	31.0	46.4

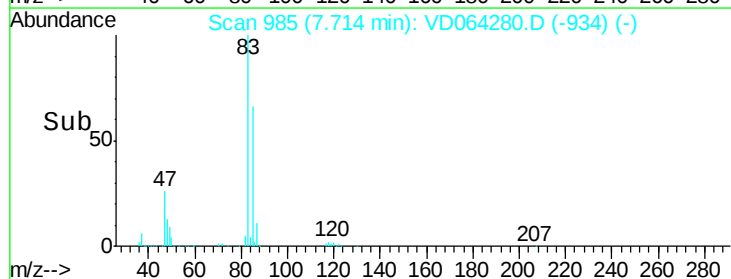
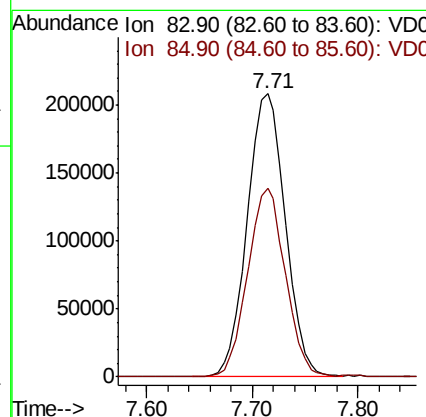
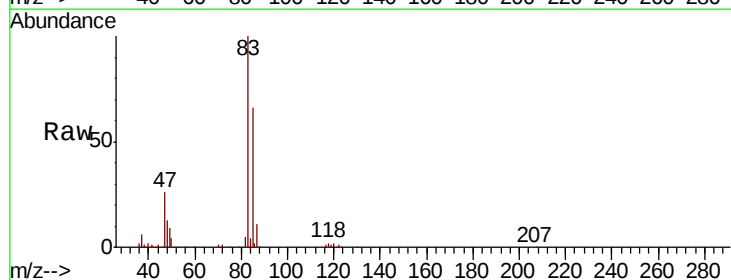
Manual Integrations
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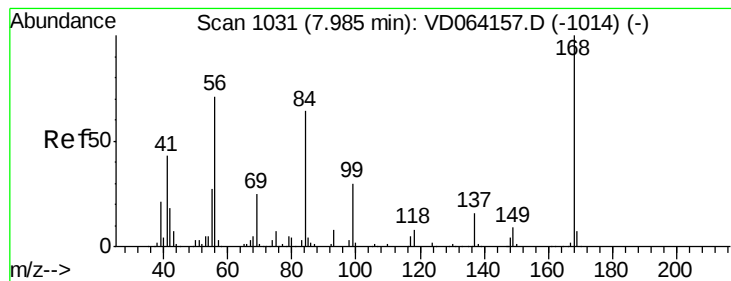
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#30
Chloroform
Concen: 50.298 ug/l
RT: 7.71 min Scan# 985
Delta R.T. -0.00 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.4	51.4	77.0





#31

Cyclohexane

Concen: 45.960 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Instrument :

MSVOA_D

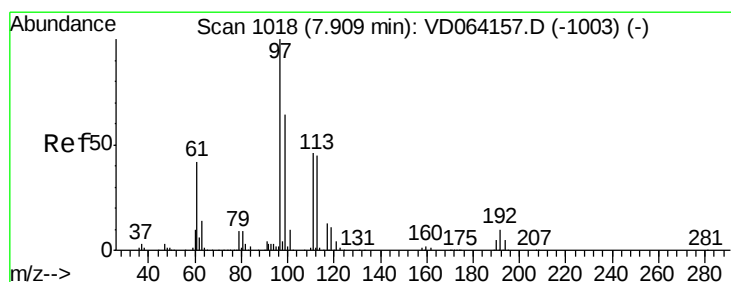
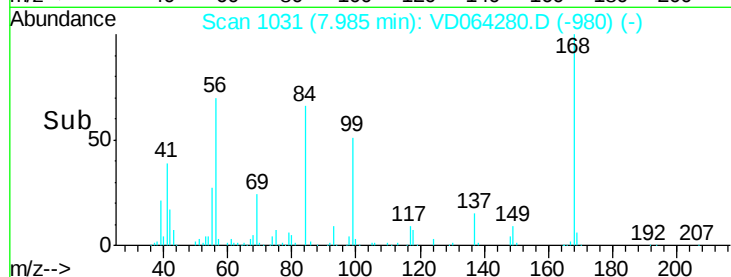
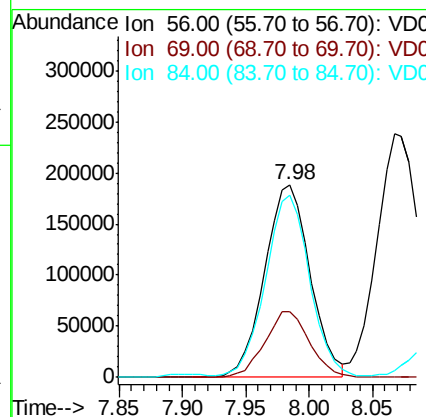
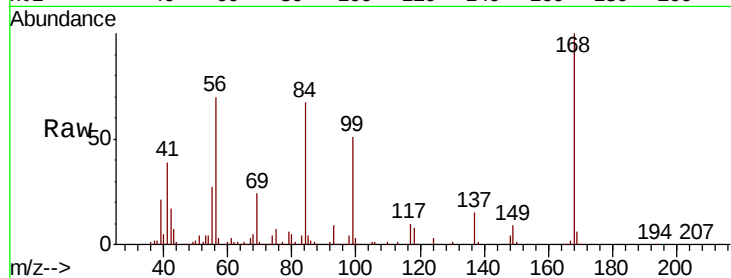
ClientSampleId :

VSTDCCC050

Tot Ion:	56	Resp:	471005
Ion	Ratio	Lower	Upper
56	100		
69	33.8	28.2	42.4
84	92.8	71.8	107.6

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#32

1,1,1-Trichloroethane

Concen: 49.432 ug/l

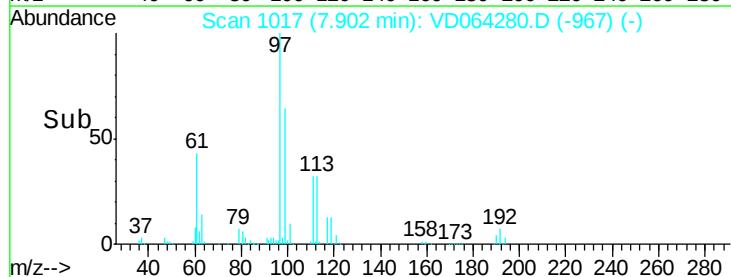
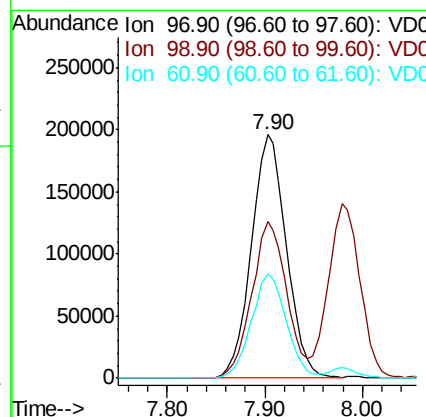
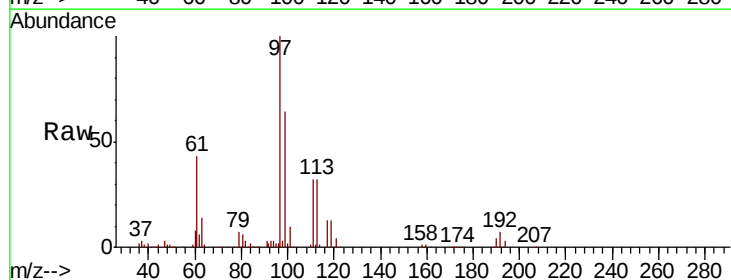
RT: 7.90 min Scan# 1017

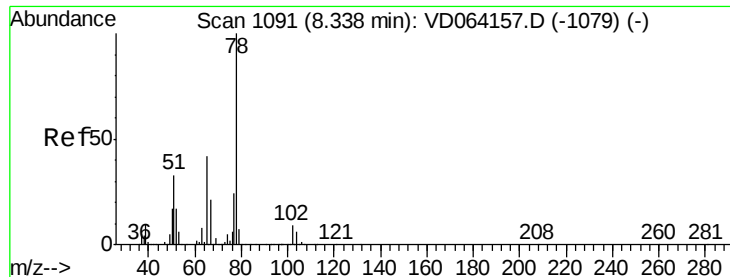
Delta R.T. -0.01 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Tgt Ion:	97	Resp:	491975
Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.6	77.4
61	43.0	34.2	51.2





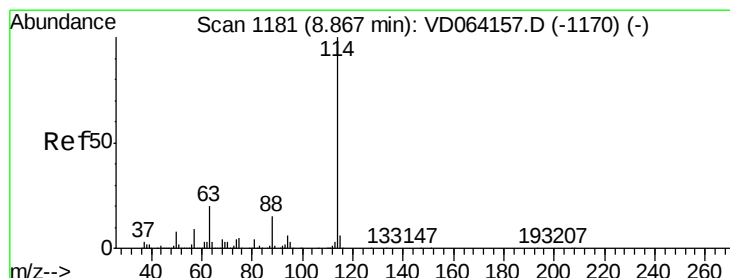
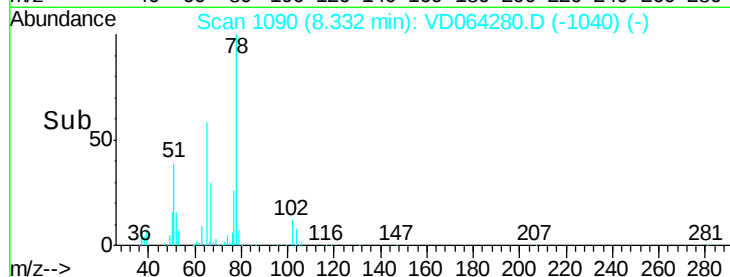
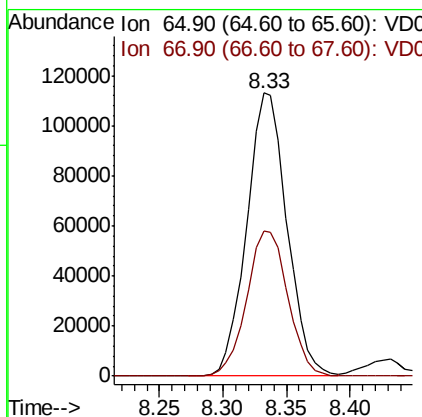
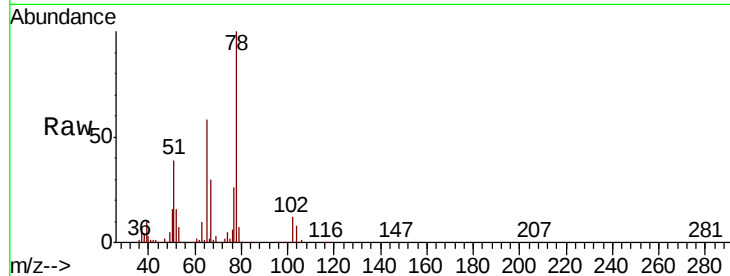
#33
 1,2-Dichloroethane-d4
 Concen: 47.968 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.01 min
 Lab File: VD064280.D
 Acq: 19 Nov 2019 10:19

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	250460		
67	52.2	0.0	104.4	

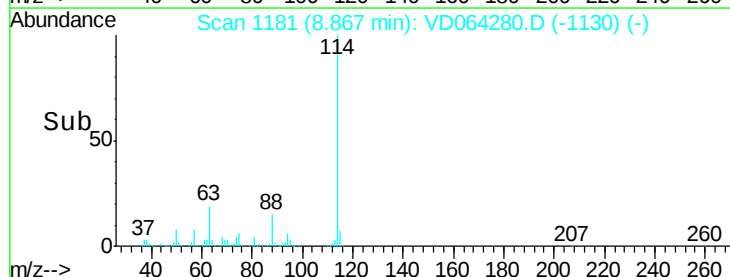
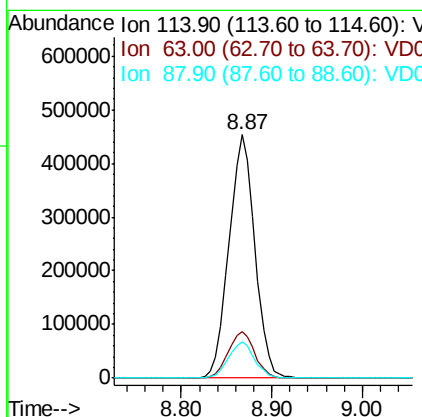
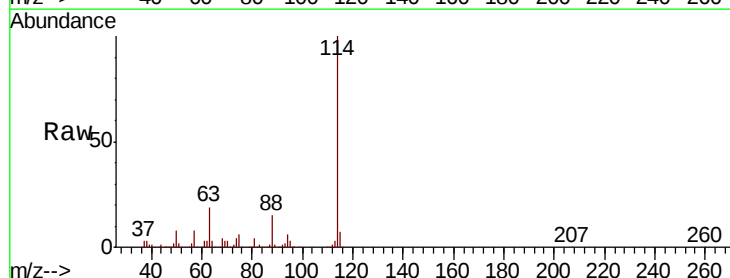
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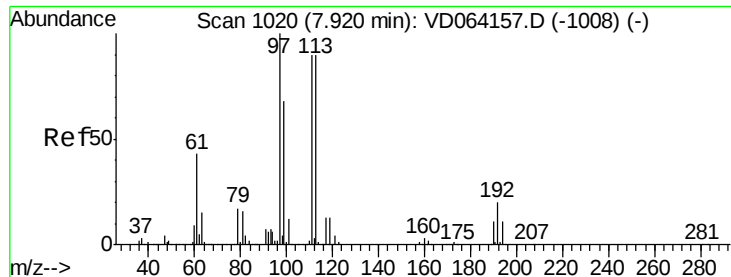
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD064280.D
 Acq: 19 Nov 2019 10:19

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	899796		
63	19.3	0.0	40.0	
88	14.8	0.0	30.2	





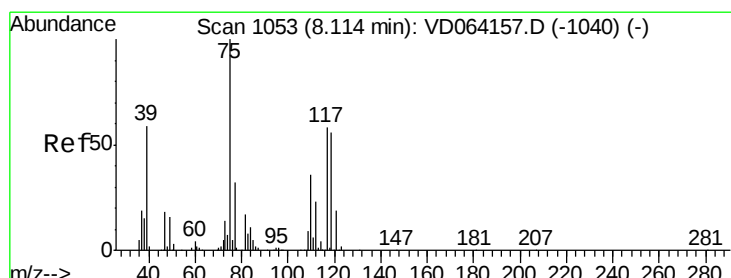
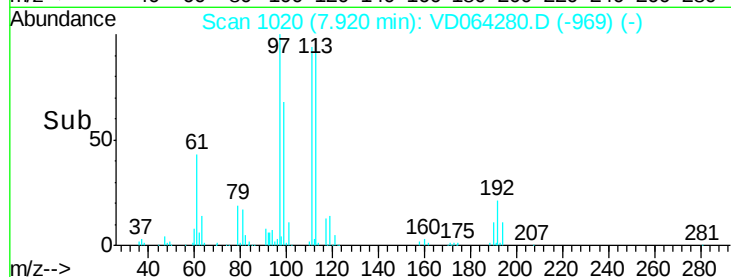
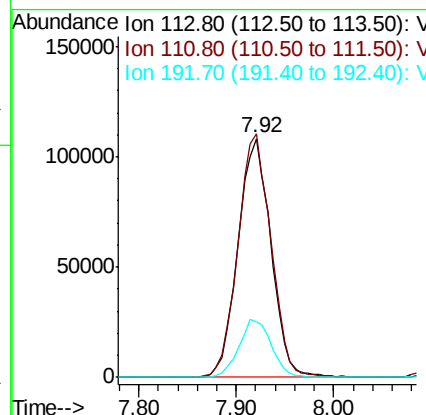
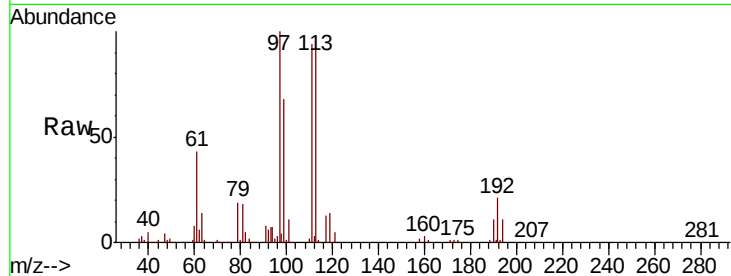
#35
Dibromofluoromethane
Concen: 49.114 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. -0.00 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	253674		
111	102.6	81.5	122.3	
192	23.7	18.8	28.2	

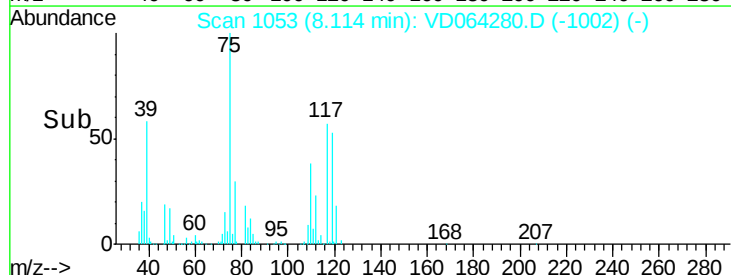
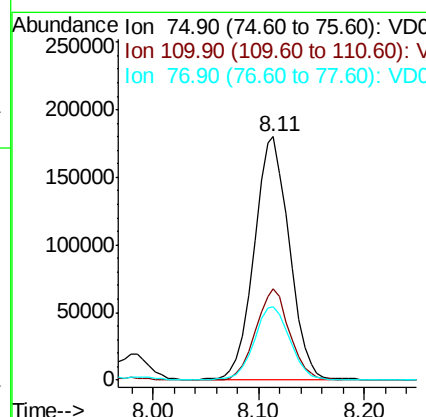
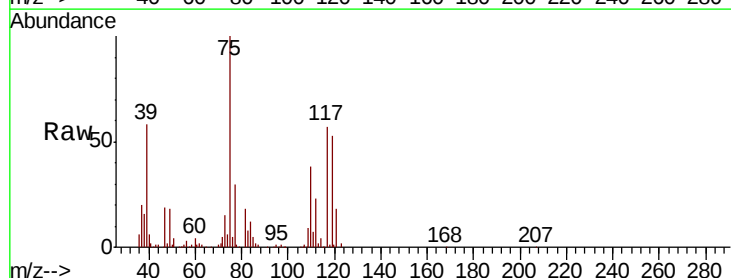
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#36
1,1-Dichloropropene
Concen: 49.920 ug/l
RT: 8.11 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	414552		
110	36.3	18.3	54.9	
77	30.5	25.0	37.6	





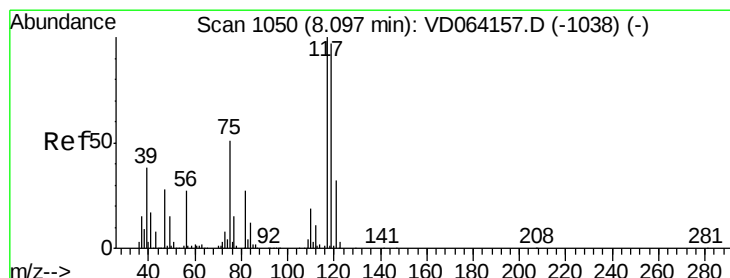
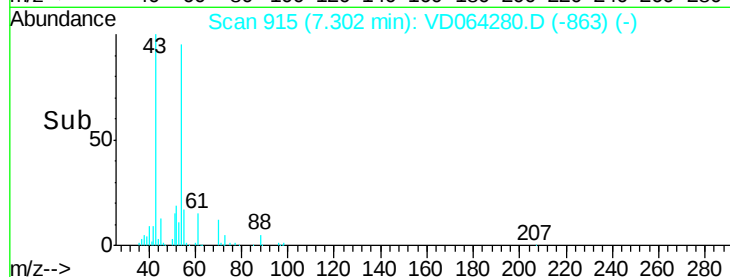
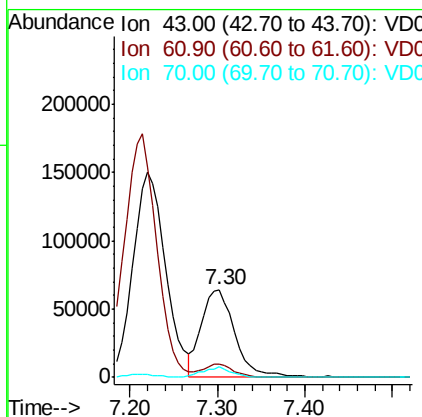
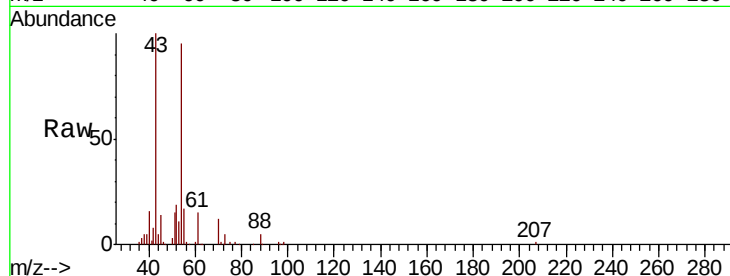
#37
Ethyl Acetate
Concen: 48.504 ug/l
RT: 7.30 min Scan# 915
Delta R.T. 0.01 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.2	10.2	15.2
70	10.0	8.5	12.7

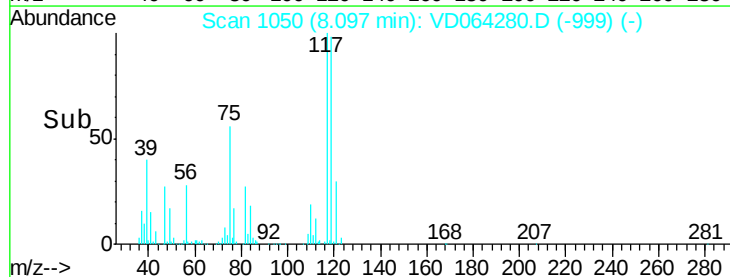
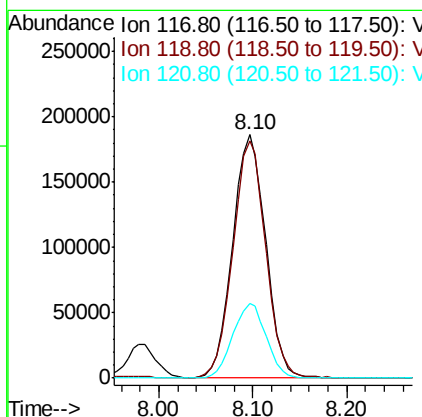
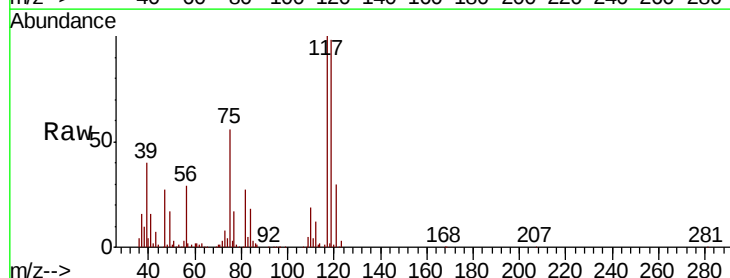
Manual Integrations
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#38
Carbon Tetrachloride
Concen: 50.977 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.8	77.2	115.8
121	30.5	25.5	38.3





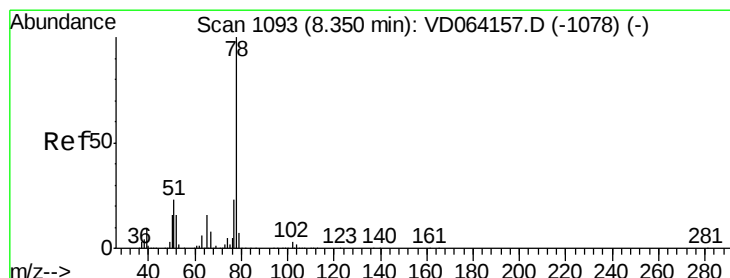
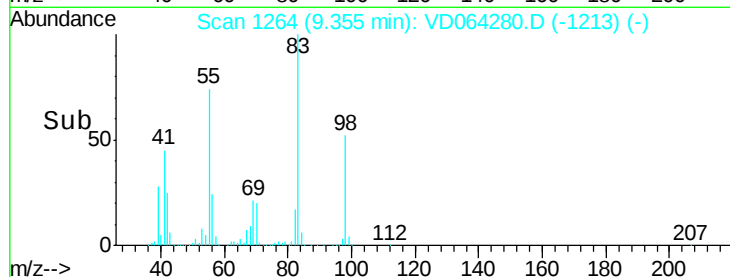
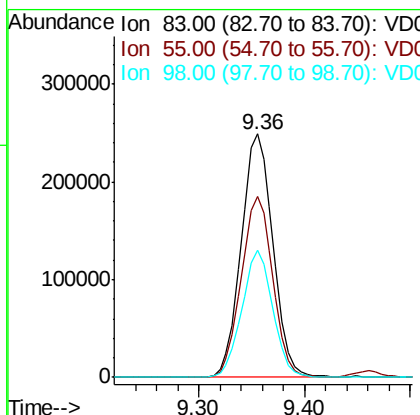
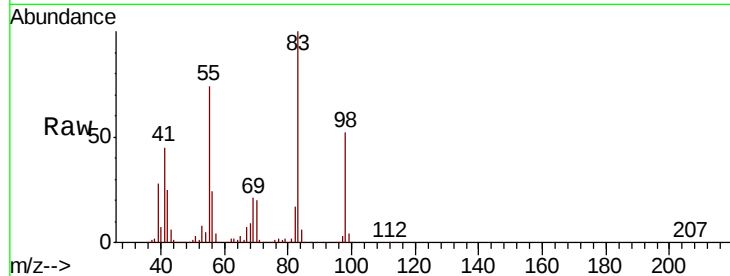
#39
Methvlcvclohexane
Concen: 49.501 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	74.3	61.7	92.5
98	52.1	38.6	58.0

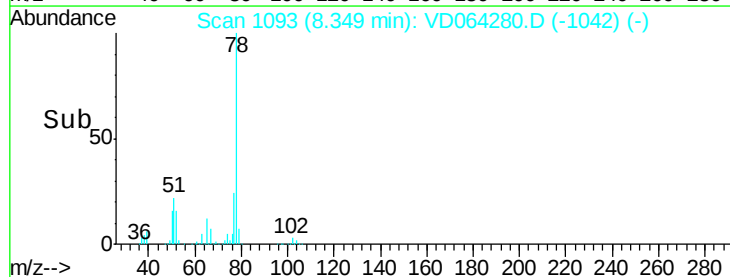
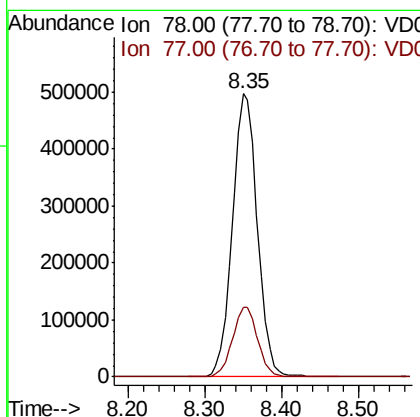
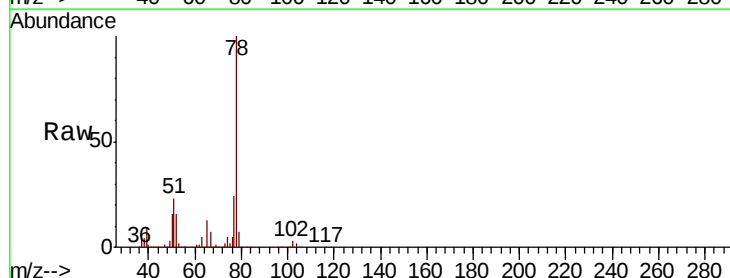
Manual Integrations
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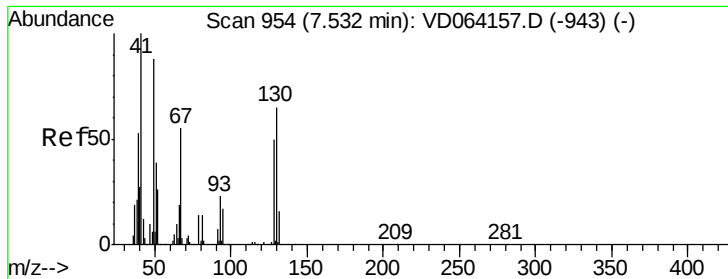
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#40
Benzene
Concen: 49.481 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. -0.00 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.4	18.6	28.0





#41

Methacrylonitrile

Concen: 44.462 ug/l

RT: 7.53 min Scan# 953

Delta R.T. -0.01 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 41 Resp: 97834
Ion Ratio Lower Upper

41 100

39 47.5 49.4 74.2#

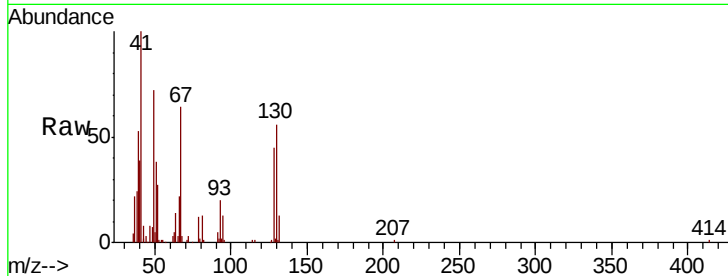
67 71.8 49.6 74.4

52 30.7 21.4 32.0

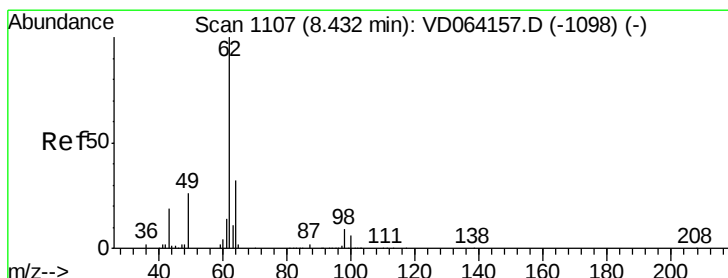
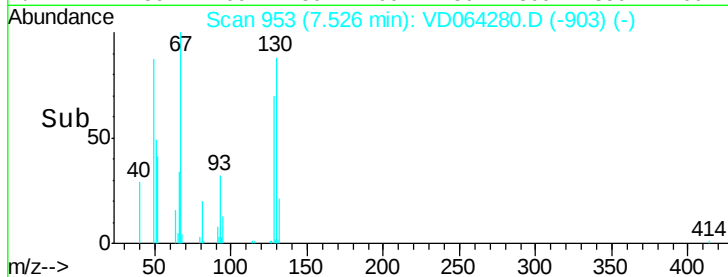
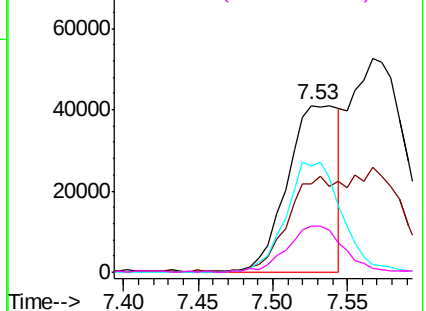
Manual Integrations
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Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 39.00 (38.70 to 39.70): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 47.920 ug/l

RT: 8.43 min Scan# 1106

Delta R.T. -0.01 min

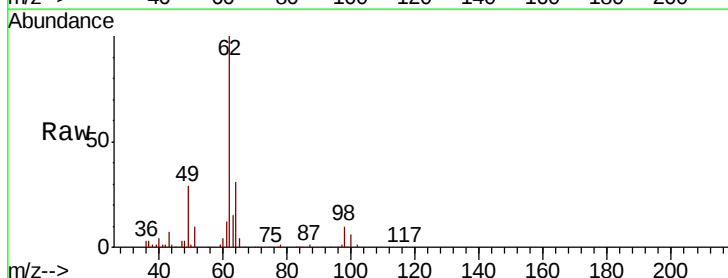
Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

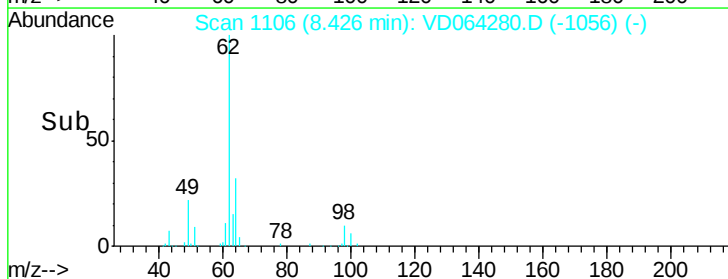
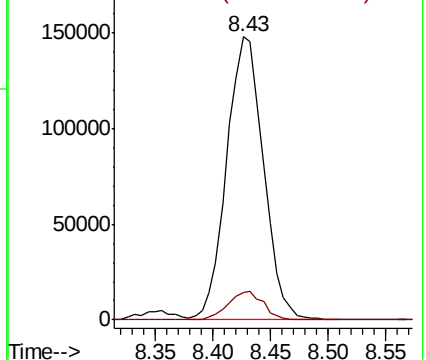
Tgt Ion: 62 Resp: 326649
Ion Ratio Lower Upper

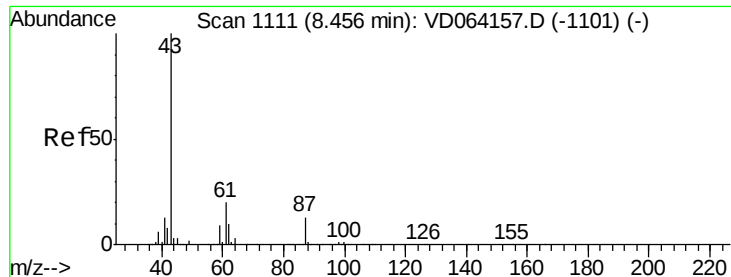
62 100

98 9.7 0.0 19.0



Abundance Ion 61.90 (61.60 to 62.60): VDC
Ion 97.90 (97.60 to 98.60): VDC





#43

Isopropyl Acetate

Concen: 47.072 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Instrument :

MSVOA_D

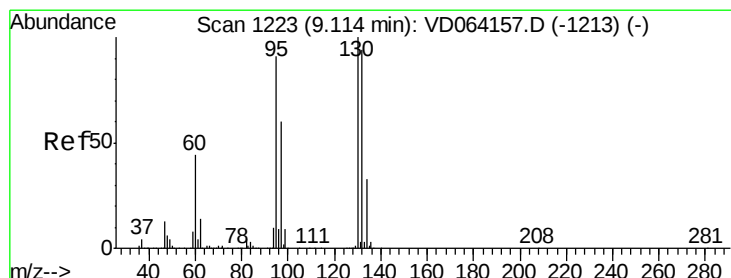
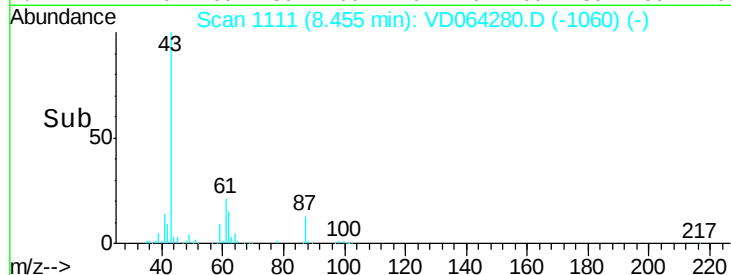
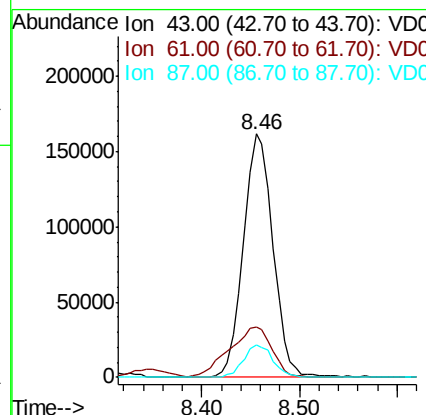
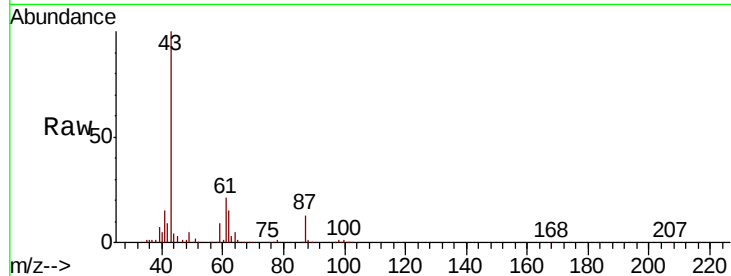
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	339548
Ion	Ratio	Lower	Upper
43	100		
61	29.2	22.9	34.3
87	13.5	10.2	15.2

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#44

Trichloroethene

Concen: 50.054 ug/l

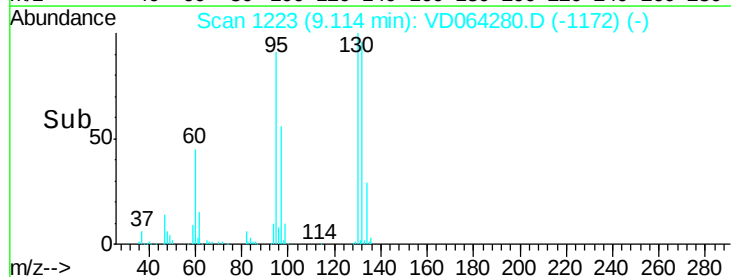
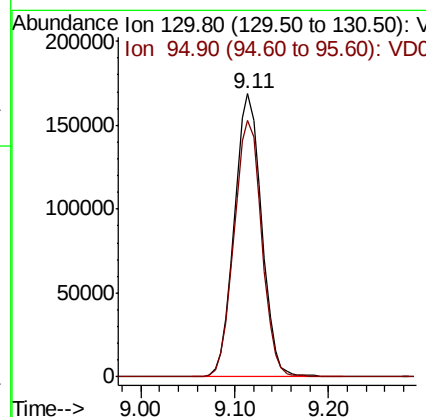
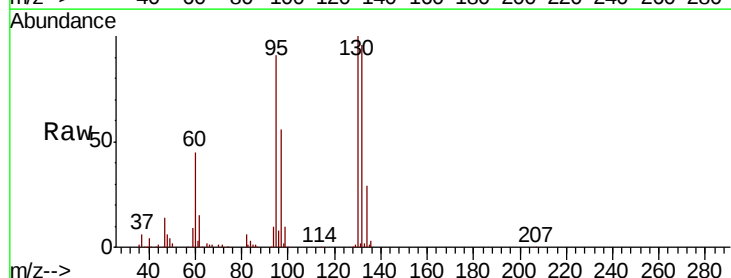
RT: 9.11 min Scan# 1223

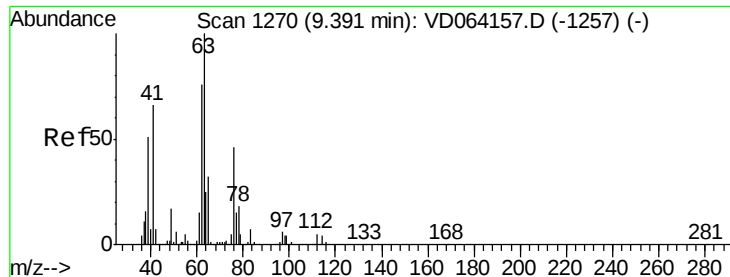
Delta R.T. -0.00 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Tgt Ion:	130	Resp:	340956
Ion	Ratio	Lower	Upper
130	100		
95	90.6	0.0	181.6





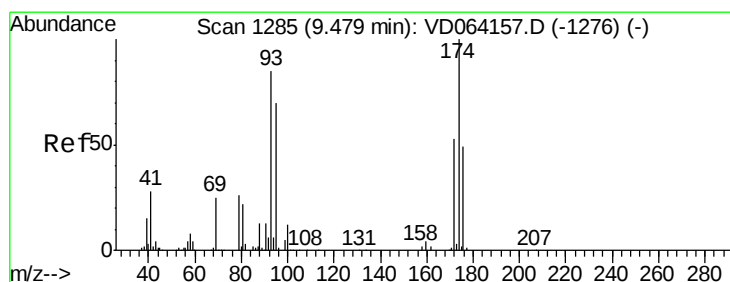
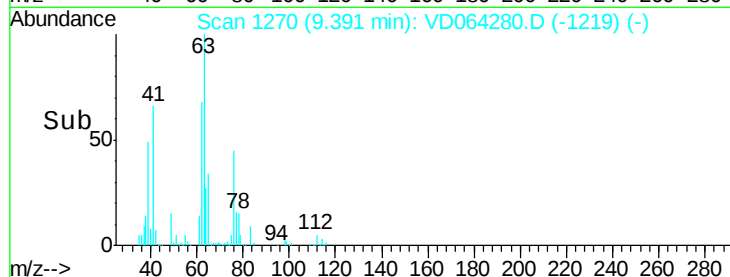
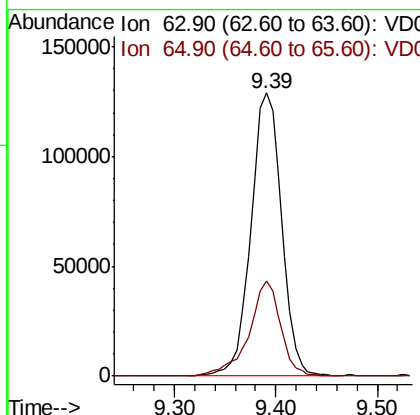
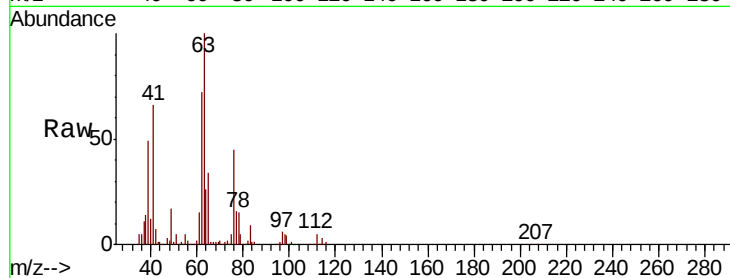
#45
 1,2-Dichloropropane
 Concen: 49.355 ug/l
 RT: 9.39 min Scan# 1270
 Delta R.T. -0.00 min
 Lab File: VD064280.D
 Acq: 19 Nov 2019 10:19

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
63	100		
65	33.8	25.7	38.5

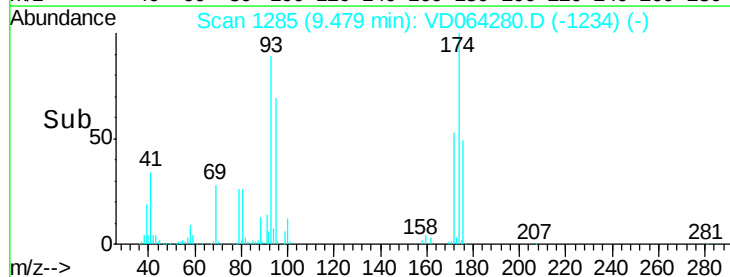
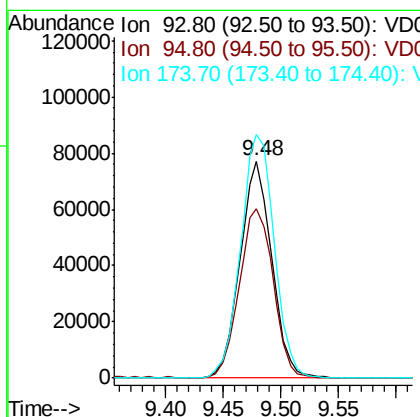
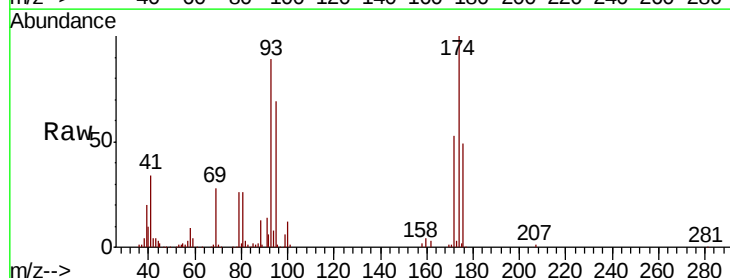
Manual Integrations
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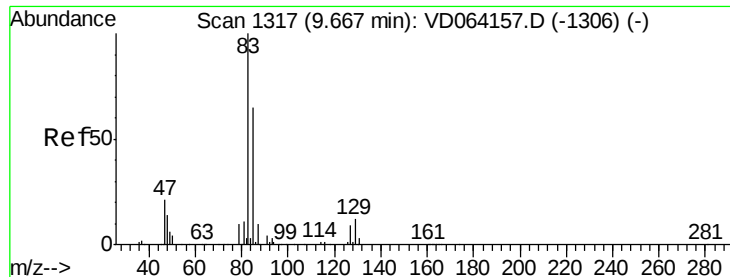
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 11/20/2019 9:56:44 AM



#46
 Dibromomethane
 Concen: 50.041 ug/l
 RT: 9.48 min Scan# 1285
 Delta R.T. -0.00 min
 Lab File: VD064280.D
 Acq: 19 Nov 2019 10:19

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.7	65.5	98.3
174	118.9	93.9	140.9





#47

Bromodichloromethane

Concen: 49.474 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Instrument :

MSVOA_D

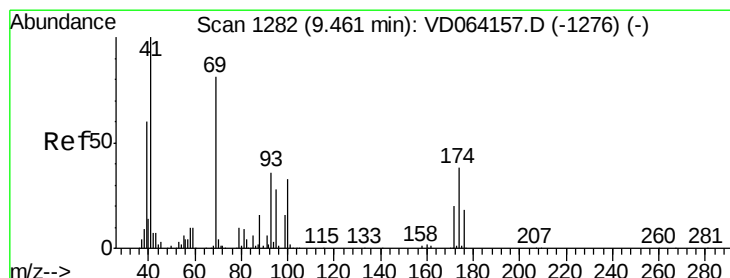
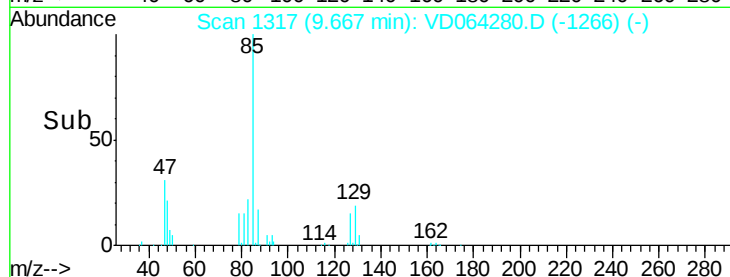
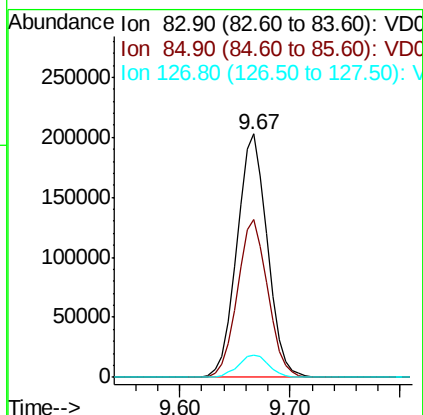
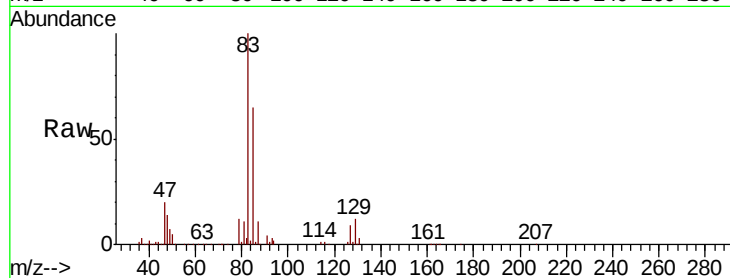
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	394114
Ion	Ratio	Lower	Upper
83	100		
85	64.8	52.2	78.4
127	9.4	7.5	11.3

Manual Integrations
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#48

Methyl methacrylate

Concen: 44.439 ug/l

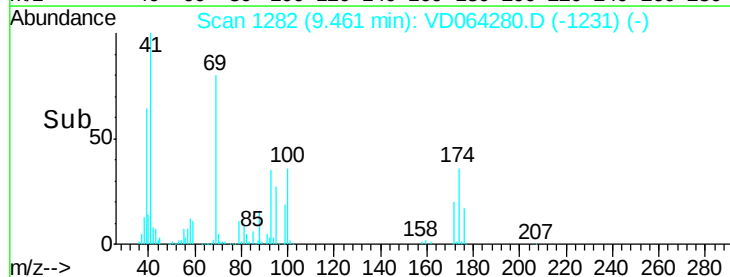
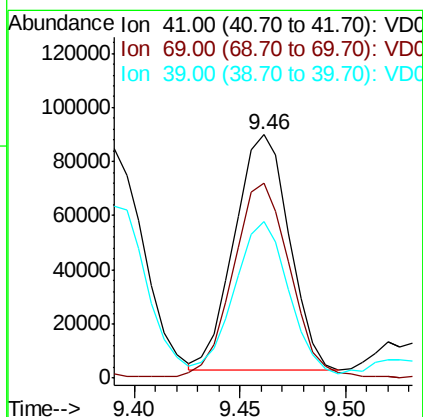
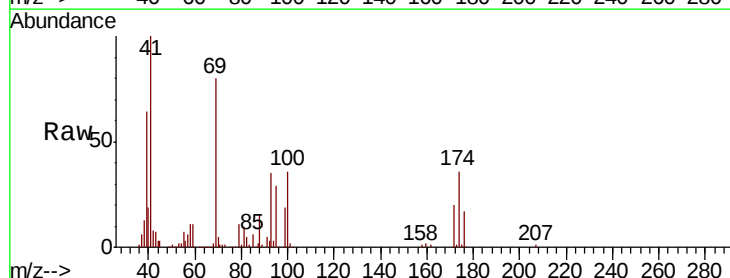
RT: 9.46 min Scan# 1282

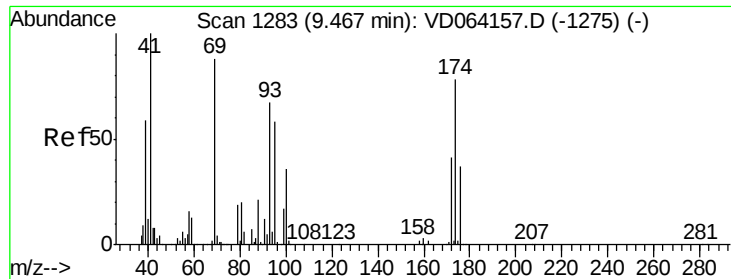
Delta R.T. -0.00 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Tgt Ion:	41	Resp:	156743
Ion	Ratio	Lower	Upper
41	100		
69	86.3	64.6	97.0
39	64.0	48.2	72.2





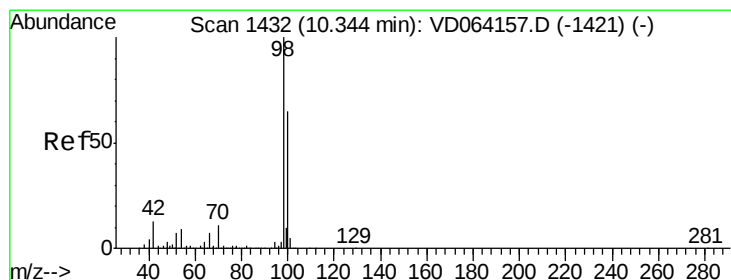
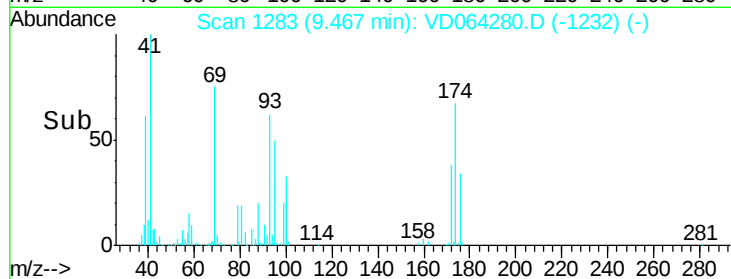
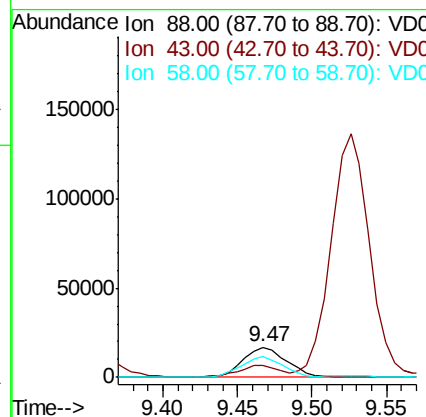
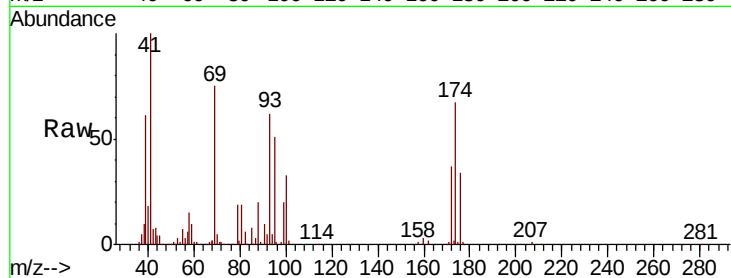
#49
1,4-Dioxane
Concen: 965.707 ug/l
RT: 9.47 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	34.9	29.8	44.8
58	66.9	58.1	87.1

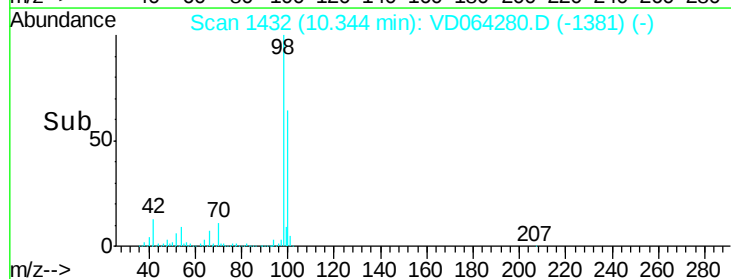
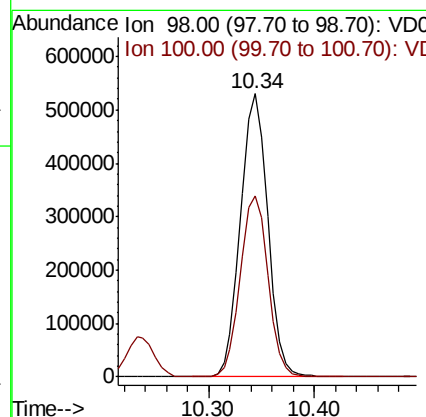
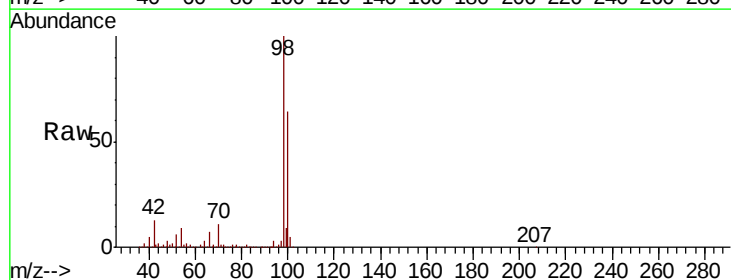
Manual Integrations
APPROVED

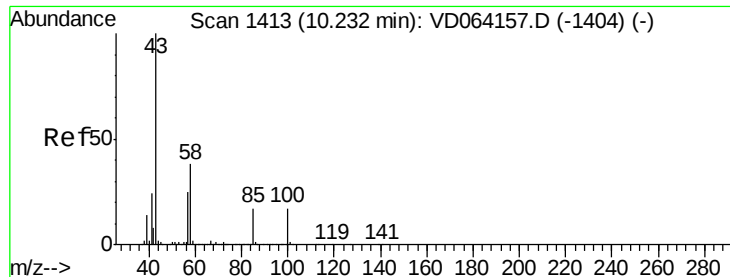
MMDadoda
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#50
Toluene-d8
Concen: 48.741 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.6	78.8





#51

4-Methyl-2-Pentanone

Concen: 239.060 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.00 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 826931

Ion Ratio Lower Upper

43 100

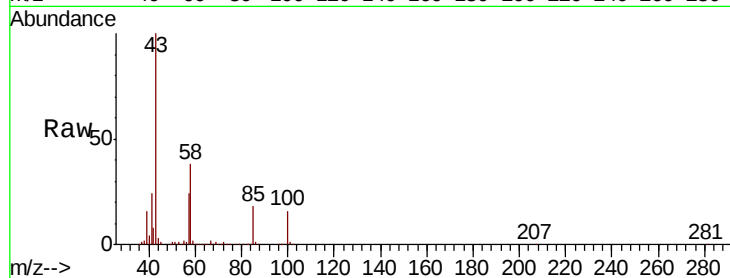
58 38.2 30.2 45.4

Manual Integrations

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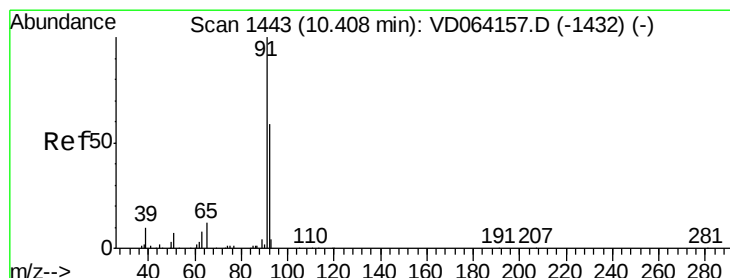
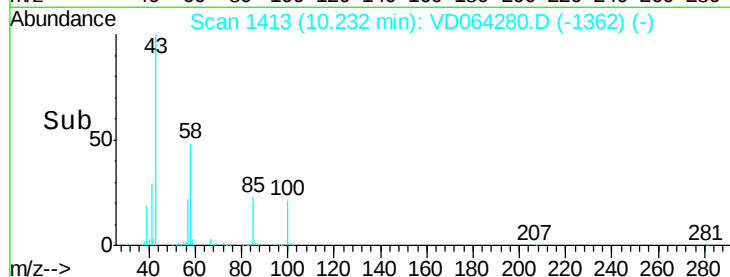
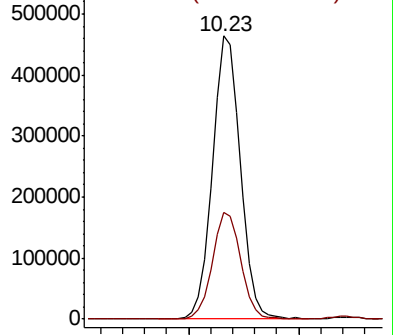
MMDadoda

11/20/2019 9:56:44 AM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#52

Toluene

Concen: 48.841 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. -0.00 min

Lab File: VD064280.D

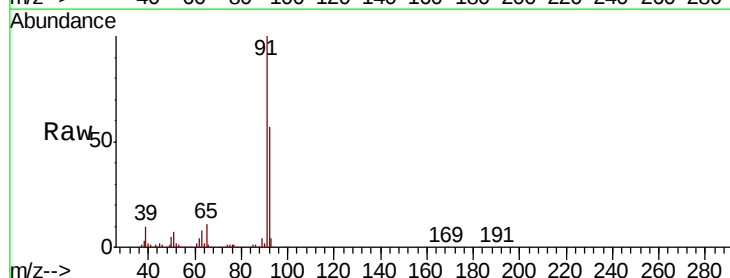
Acq: 19 Nov 2019 10:19

Tgt Ion: 92 Resp: 728904

Ion Ratio Lower Upper

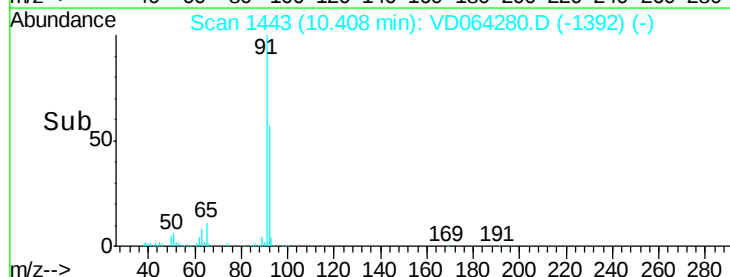
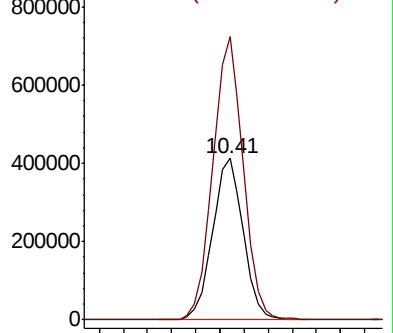
92 100

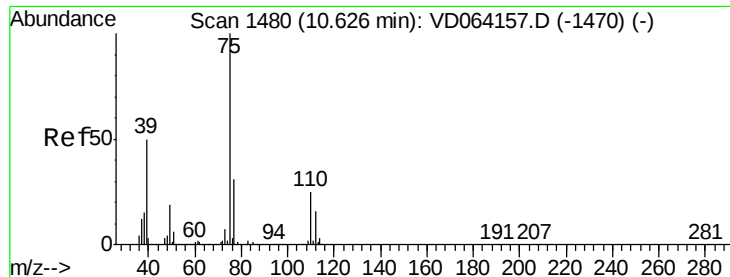
91 173.8 136.4 204.6



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





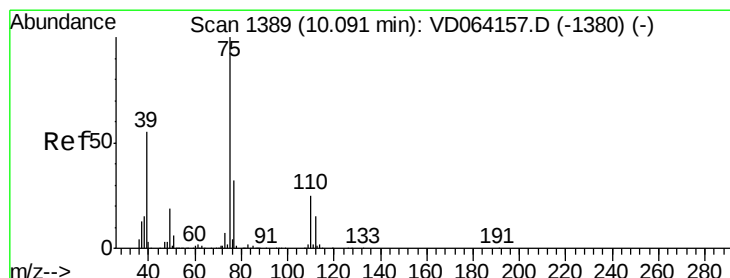
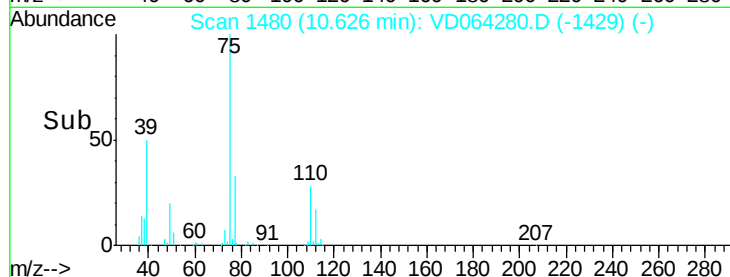
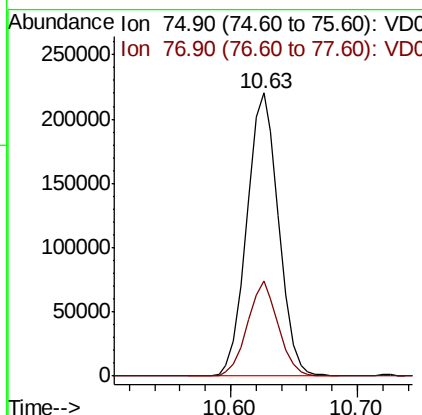
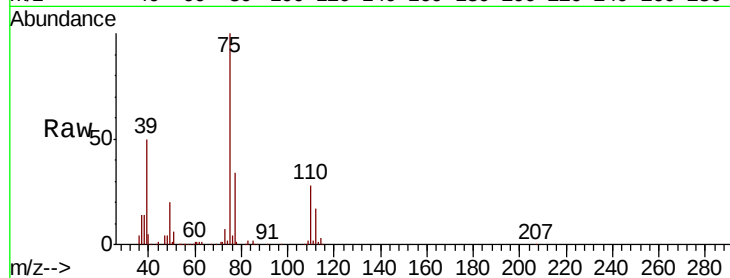
#53
t-1,3-Dichloropropene
Concen: 48.046 ug/l
RT: 10.63 min Scan# 1480
Delta R.T. -0.00 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	33.6	24.7	37.1

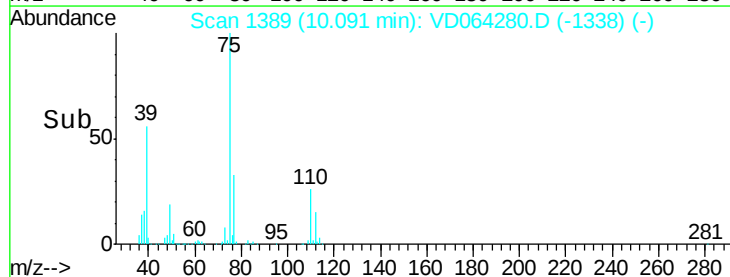
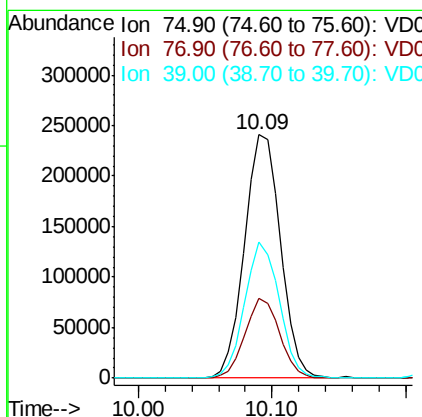
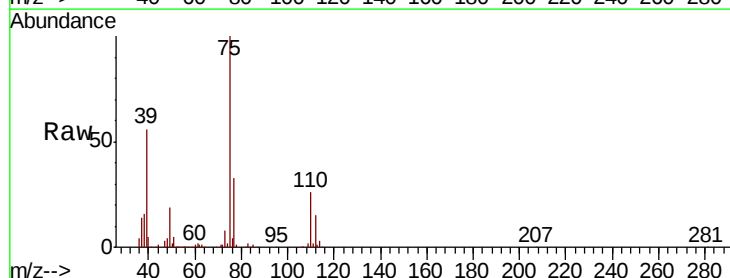
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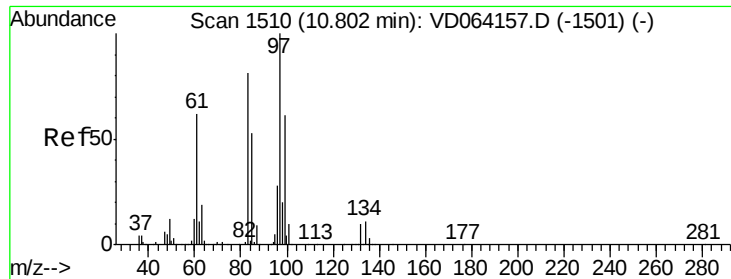
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11/20/2019 9:56:44 AM



#54
cis-1,3-Dichloropropene
Concen: 48.268 ug/l
RT: 10.09 min Scan# 1389
Delta R.T. -0.00 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Tgt Ion	Ratio	Lower	Upper
75	100		
77	33.0	25.2	37.8
39	55.8	44.2	66.2





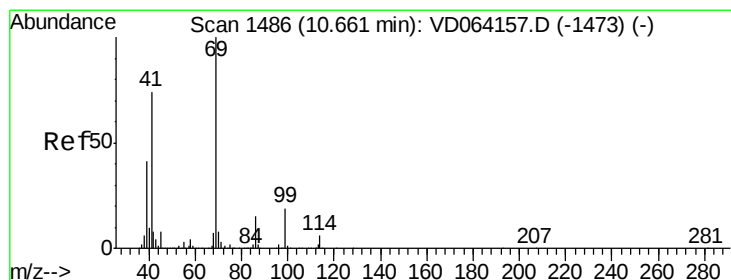
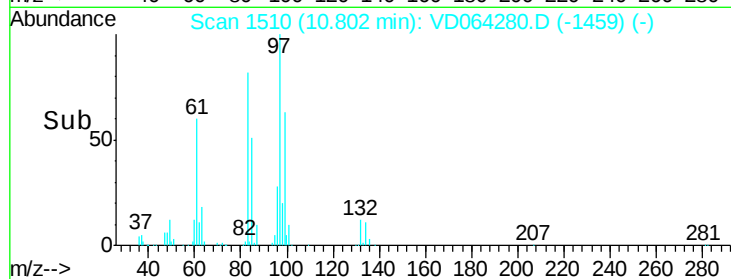
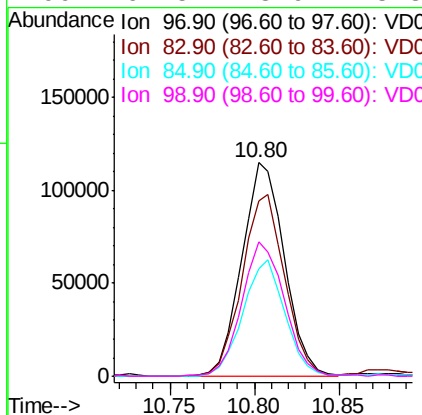
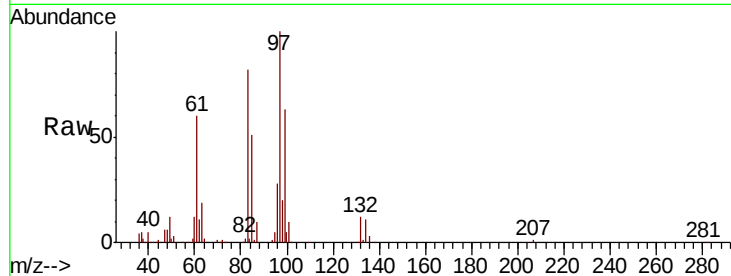
#55
 1,1,2-Trichloroethane
 Concen: 50.453 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. -0.00 min
 Lab File: VD064280.D
 Acq: 19 Nov 2019 10:19

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:	97	Resp:	202411
Ion Ratio	Lower	Upper	
97	100		
83	81.8	65.1	97.7
85	50.5	42.0	63.0
99	62.5	48.9	73.3

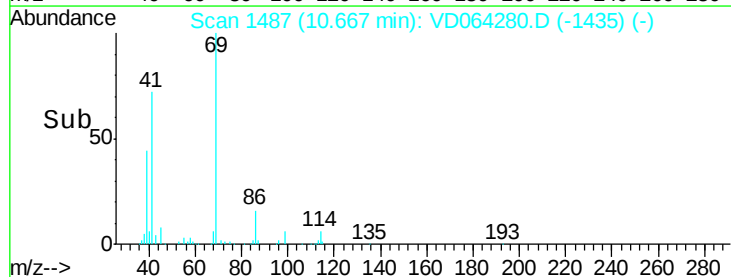
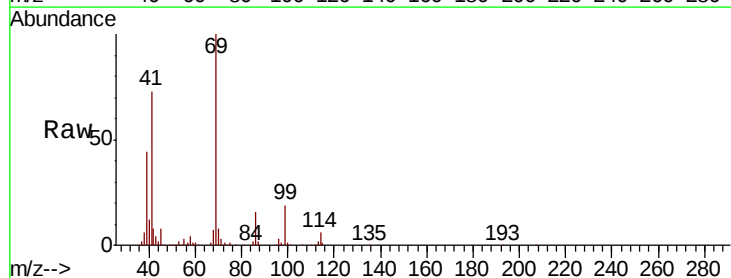
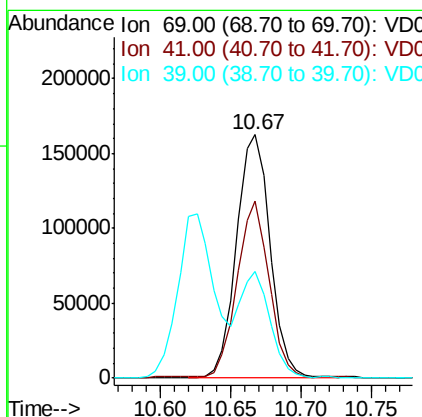
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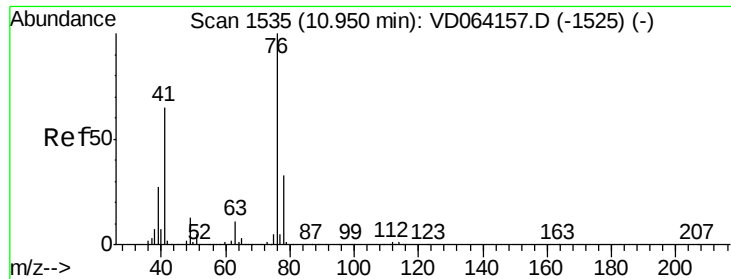
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 11/20/2019 9:56:44 AM



#56
 Ethyl methacrylate
 Concen: 48.527 ug/l
 RT: 10.67 min Scan# 1487
 Delta R.T. 0.01 min
 Lab File: VD064280.D
 Acq: 19 Nov 2019 10:19

Tgt Ion:	69	Resp:	272339
Ion Ratio	Lower	Upper	
69	100		
41	68.2	57.9	86.9
39	38.4	29.0	43.4





#57

1,3-Dichloropropane

Concen: 50.209 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. -0.00 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 351300

Ion Ratio Lower Upper

76 100

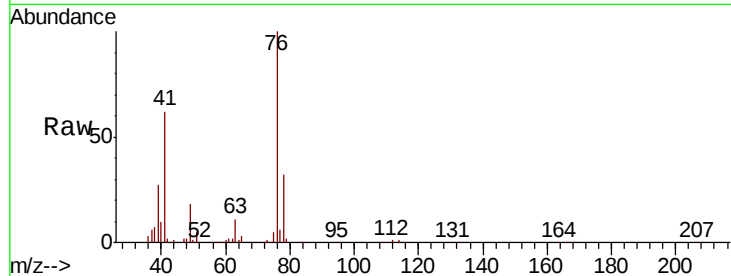
78 32.0 26.2 39.4

Manual Integrations

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MMDadoda

11/20/2019 9:56:44 AM



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

200000

150000

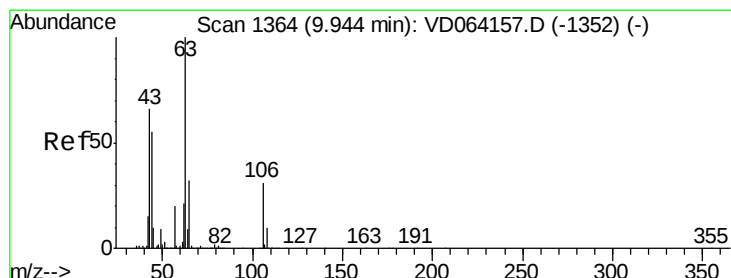
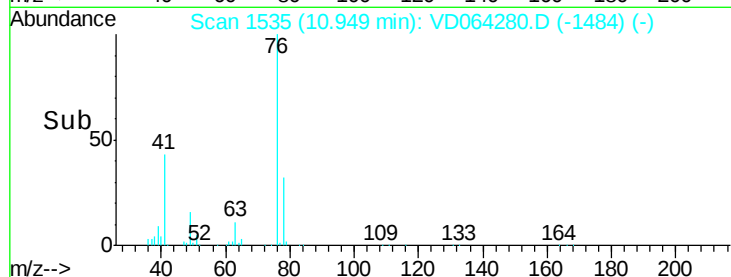
100000

50000

0

10.90 11.00

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 248.295 ug/l

RT: 9.94 min Scan# 1364

Delta R.T. -0.00 min

Lab File: VD064280.D

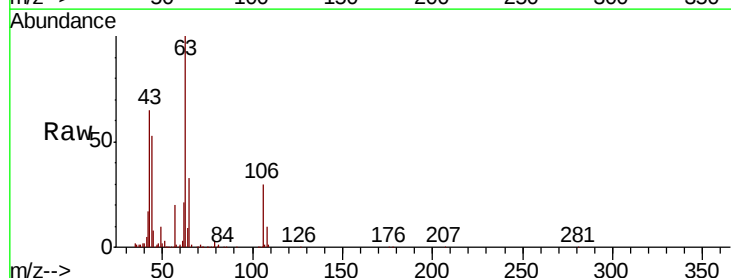
Acq: 19 Nov 2019 10:19

Tgt Ion: 63 Resp: 564456

Ion Ratio Lower Upper

63 100

106 30.6 24.1 36.1



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 105.90 (105.60 to 106.60): V

300000

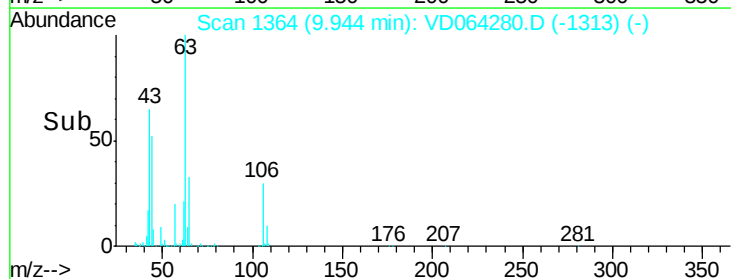
200000

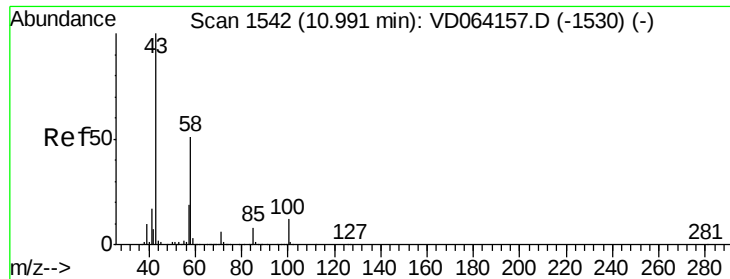
100000

0

9.90 10.00

Time-->





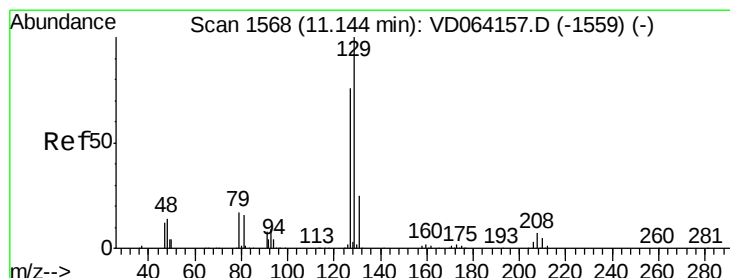
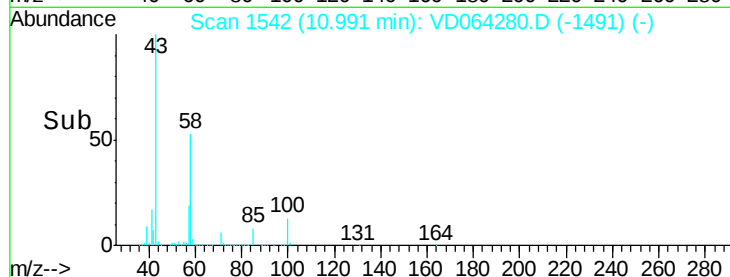
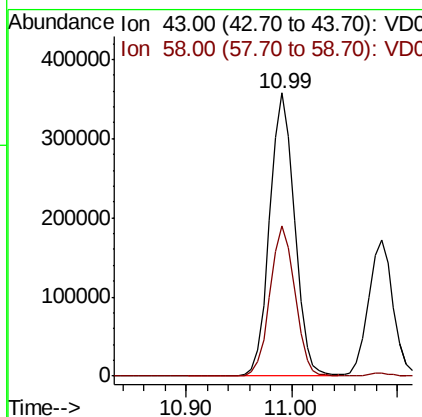
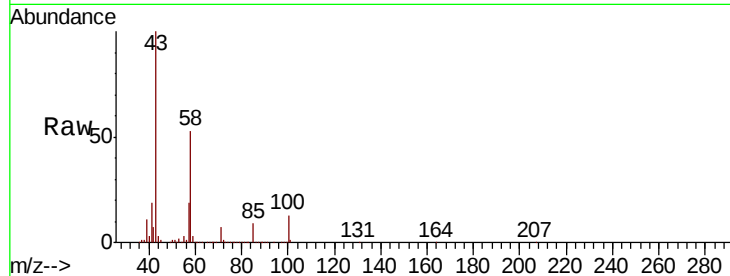
#59
2-Hexanone
Concen: 236.622 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. -0.00 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 582316
Ion Ratio Lower Upper
43 100
58 53.2 25.9 77.7

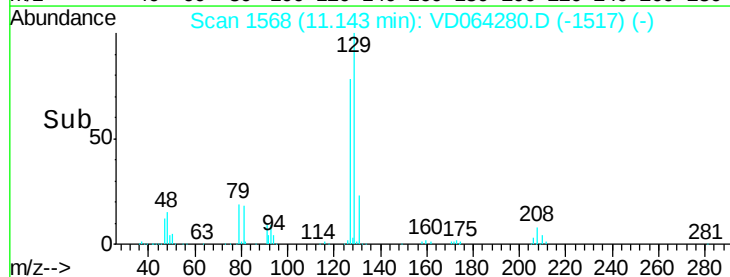
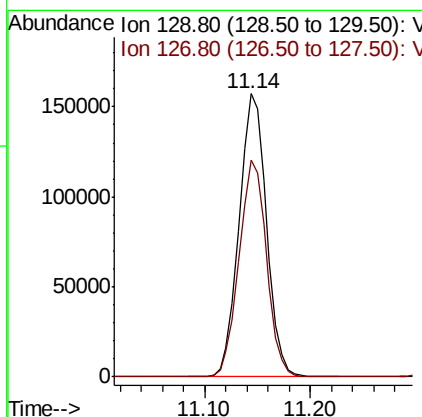
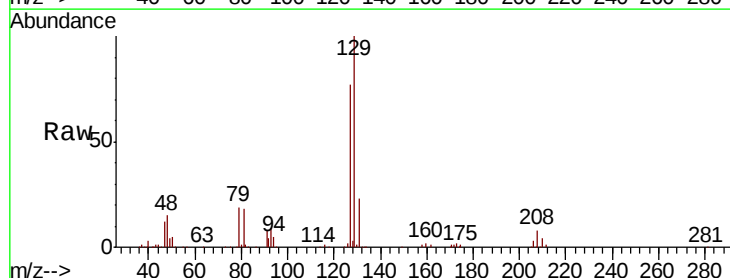
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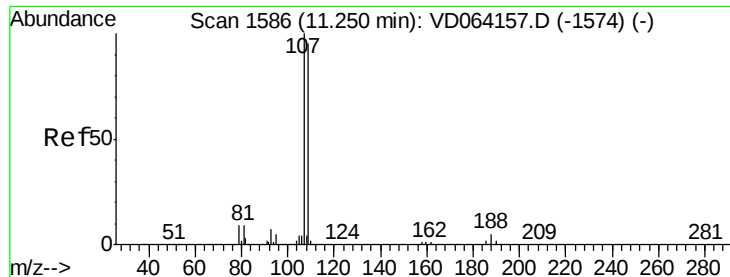
MMDadoda
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#60
Dibromochloromethane
Concen: 50.504 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Tgt Ion: 129 Resp: 282727
Ion Ratio Lower Upper
129 100
127 76.8 38.6 115.8





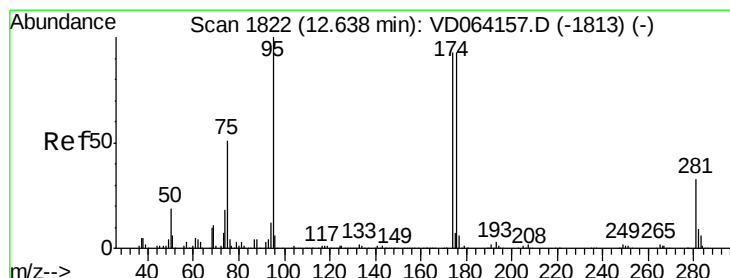
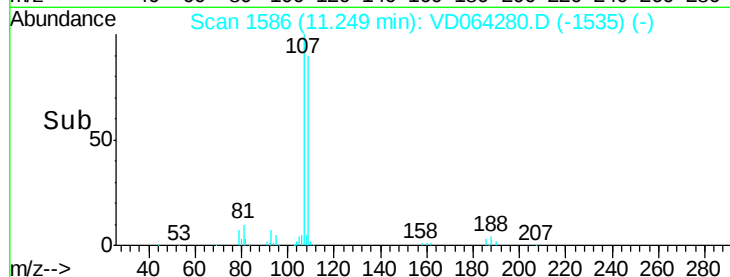
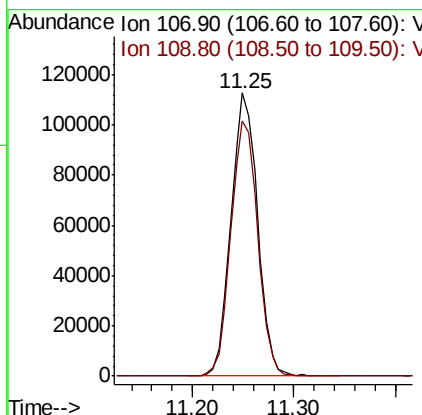
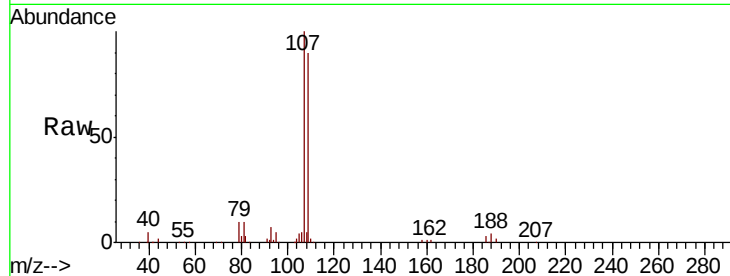
#61
 1,2-Dibromoethane
 Concen: 50.972 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. -0.00 min
 Lab File: VD064280.D
 Acq: 19 Nov 2019 10:19

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
107	100		
109	91.3	75.1	112.7

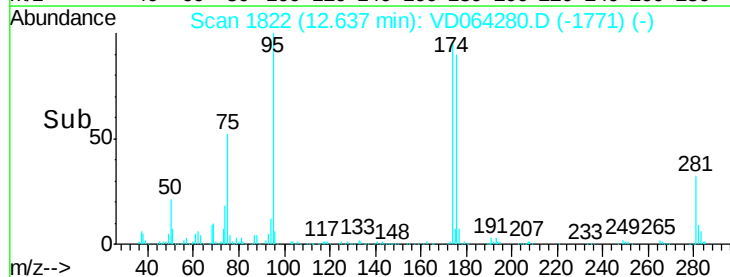
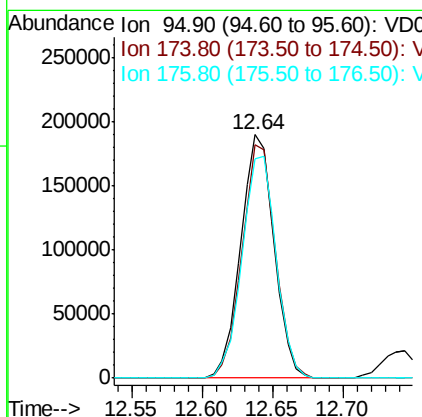
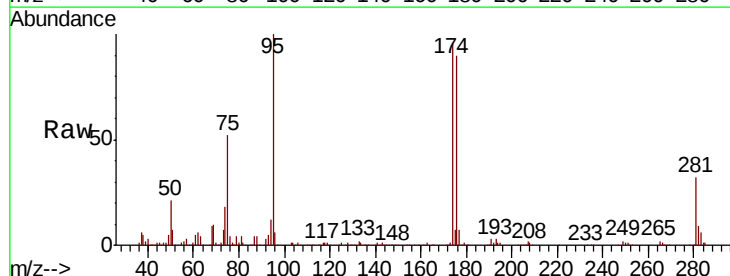
Manual Integrations
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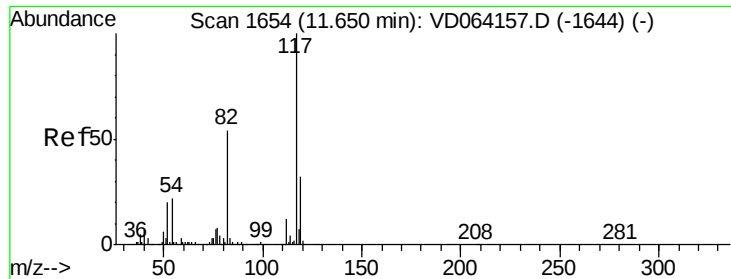
MMDadoda
 11/20/2019 9:56:44 AM



#62
 4-Bromofluorobenzene
 Concen: 46.647 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.00 min
 Lab File: VD064280.D
 Acq: 19 Nov 2019 10:19

Tgt Ion	Ratio	Lower	Upper
95	100		
174	95.7	0.0	183.6
176	93.3	0.0	180.2





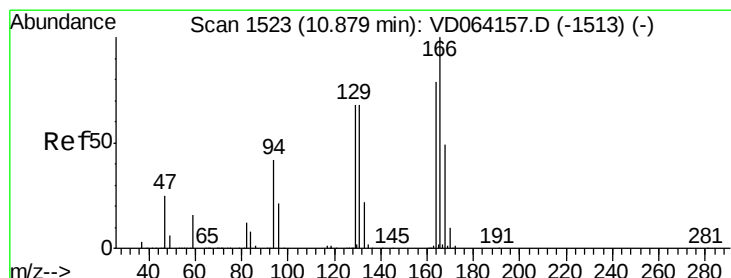
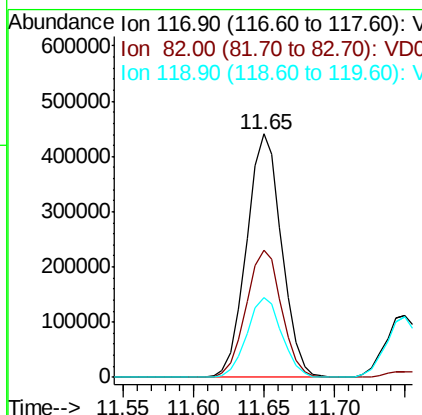
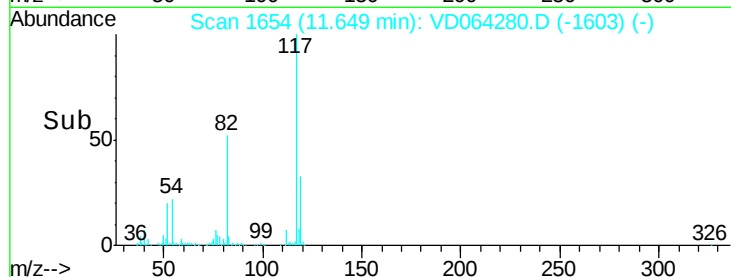
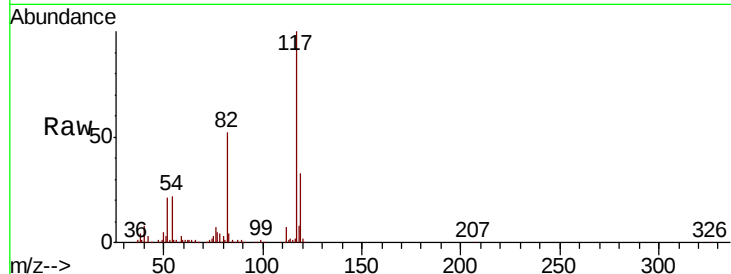
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.2	42.8	64.2
119	32.9	25.6	38.4

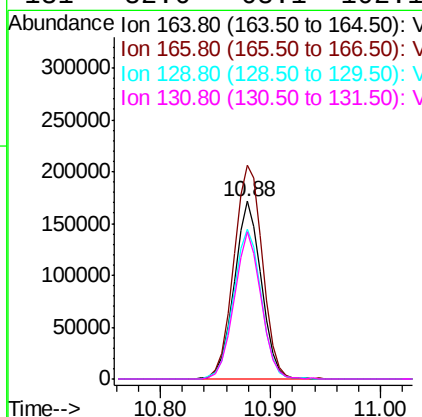
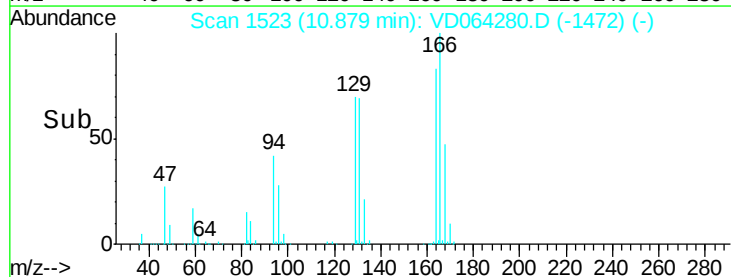
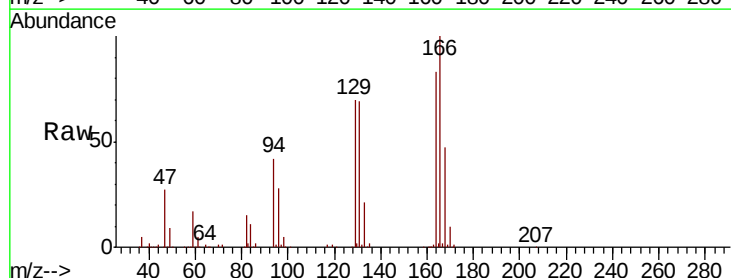
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#64
Tetrachloroethene
Concen: 50.009 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. -0.00 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Tgt Ion	Ratio	Lower	Upper
164	100		
166	120.1	100.8	151.2
129	84.4	68.7	103.1
131	82.6	68.1	102.1





#65

Chlorobenzene

Concen: 50.031 ug/l

RT: 11.68 min Scan# 1659

Delta R.T. 0.01 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:112 Resp: 781735

Ion Ratio Lower Upper

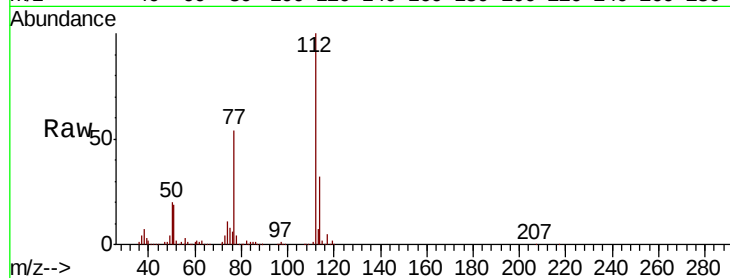
112 100

114 31.7 25.2 37.8

Manual Integrations
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.68

400000

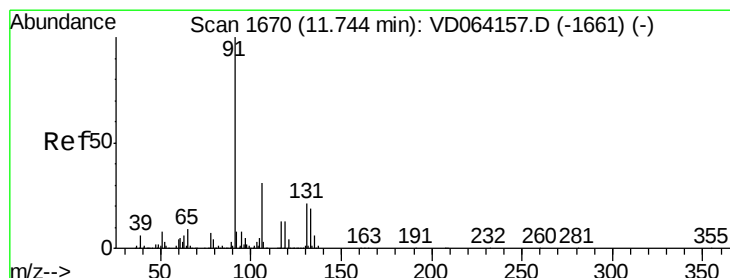
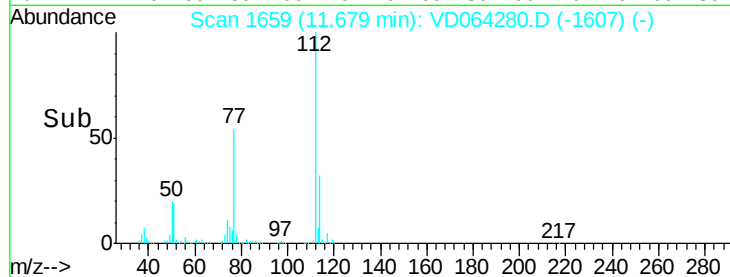
300000

200000

100000

0

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 50.288 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.01 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

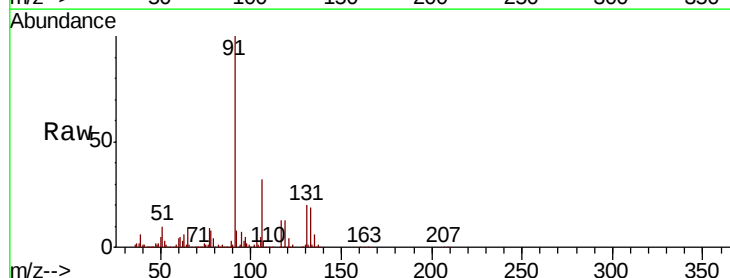
Tgt Ion:131 Resp: 298776

Ion Ratio Lower Upper

131 100

133 96.6 47.3 141.9

119 62.7 31.1 93.3



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

11.75

200000

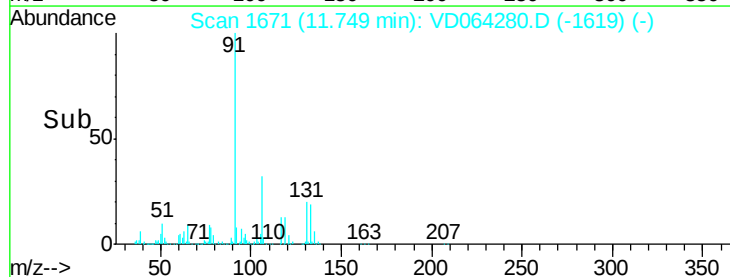
150000

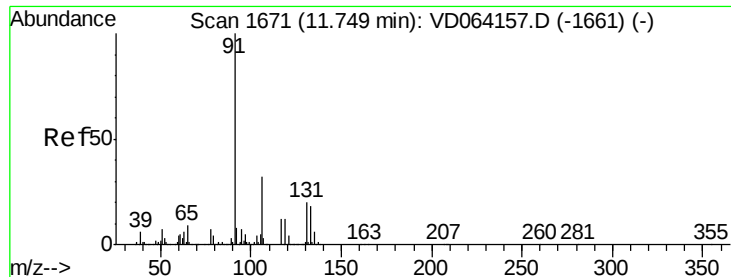
100000

50000

0

Time-->





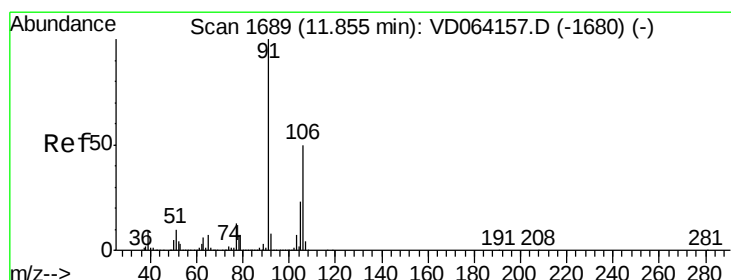
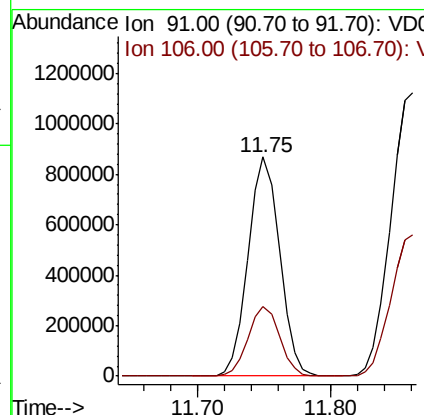
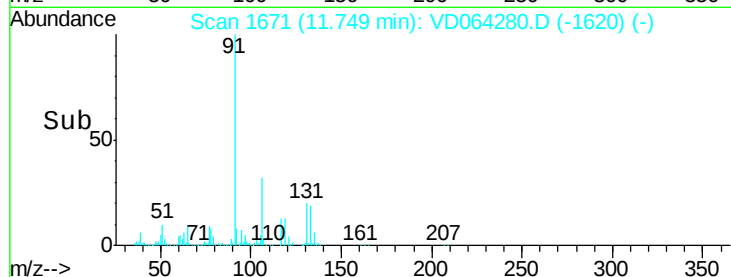
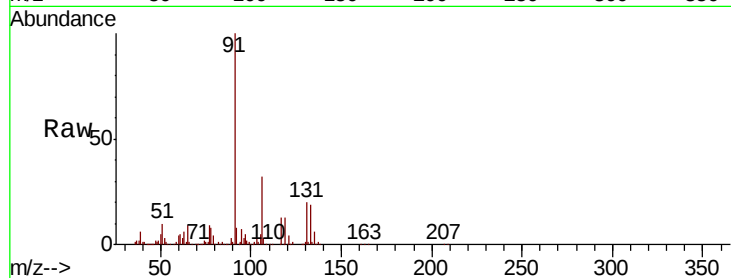
#67
Ethyl Benzene
Concen: 50.148 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1417343
Ion Ratio Lower Upper
91 100
106 31.9 25.5 38.3

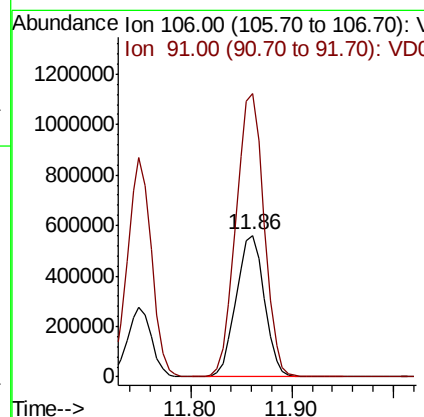
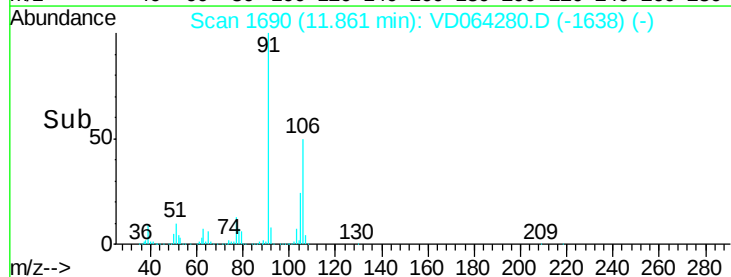
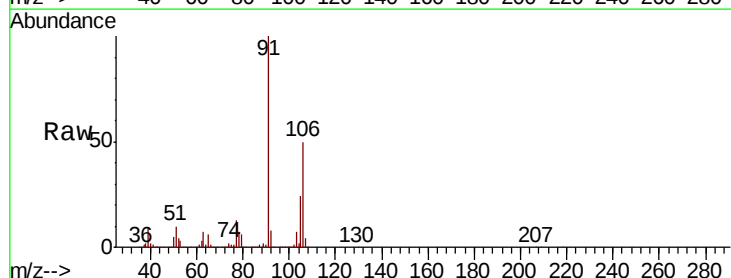
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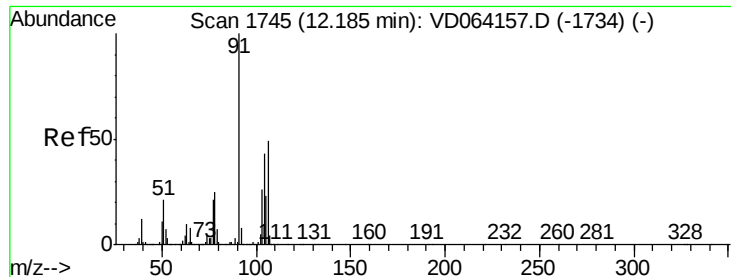
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#68
m/p-Xylenes
Concen: 100.044 ug/l
RT: 11.86 min Scan# 1690
Delta R.T. 0.01 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Tgt Ion: 106 Resp: 1083811
Ion Ratio Lower Upper
106 100
91 200.1 160.3 240.5





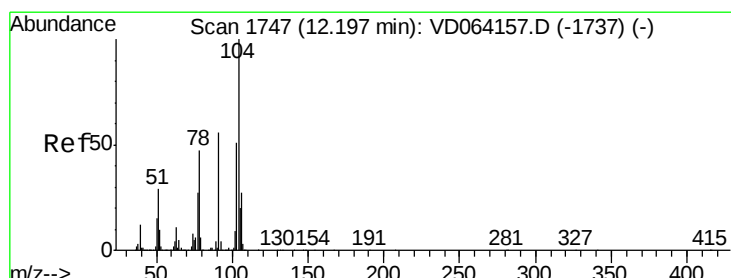
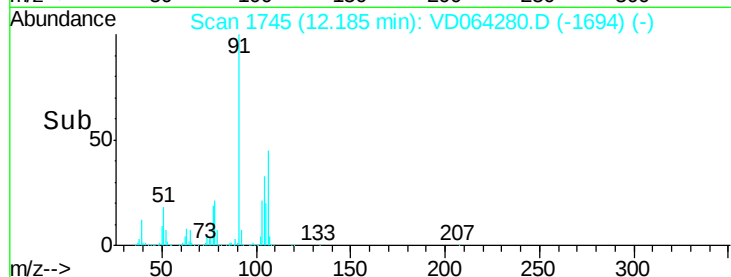
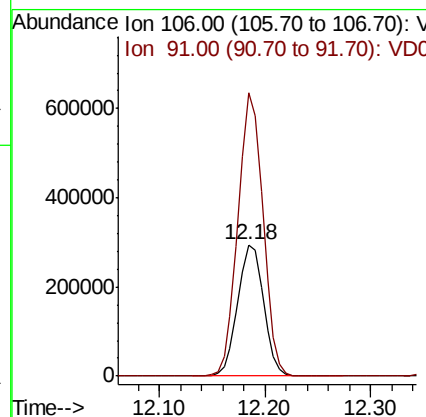
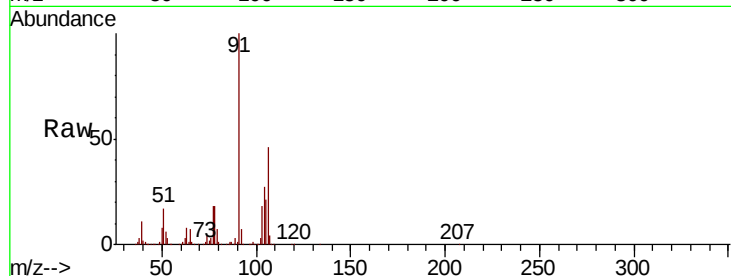
#69
o-Xylene
Concen: 49.433 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.00 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
106	100		
91	209.7	105.1	315.3

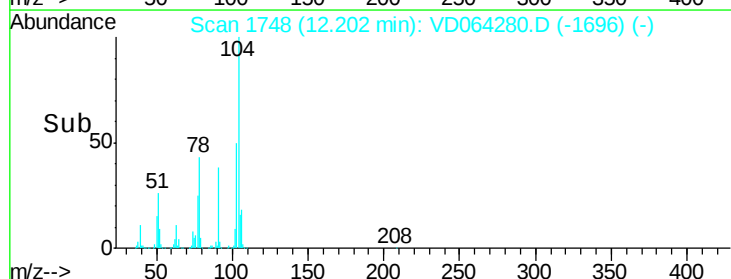
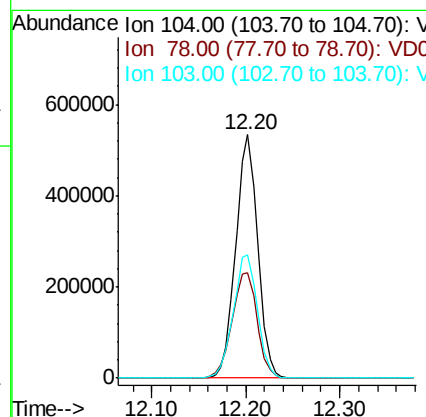
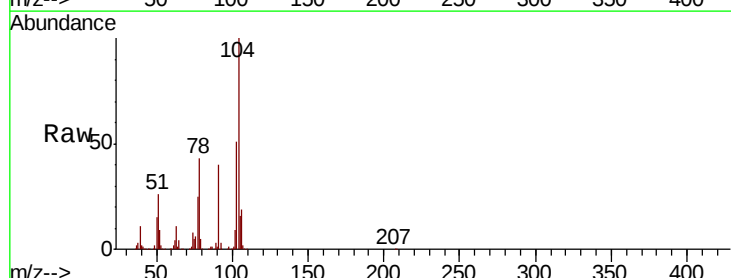
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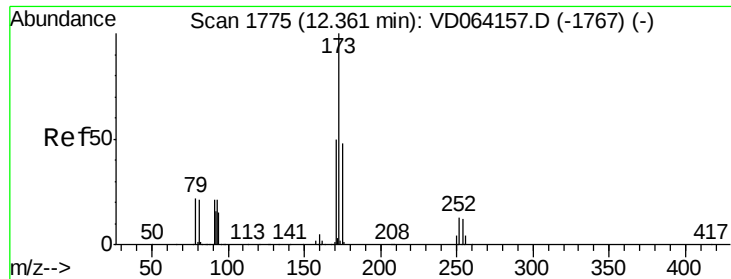
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#70
Styrene
Concen: 49.567 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. 0.01 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Tgt Ion	Ratio	Lower	Upper
104	100		
78	49.2	39.9	59.9
103	55.5	43.4	65.0





#71

Bromoform

Concen: 50.371 ug/l

RT: 12.37 min Scan# 1776

Delta R.T. 0.01 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Instrument :

MSVOA_D

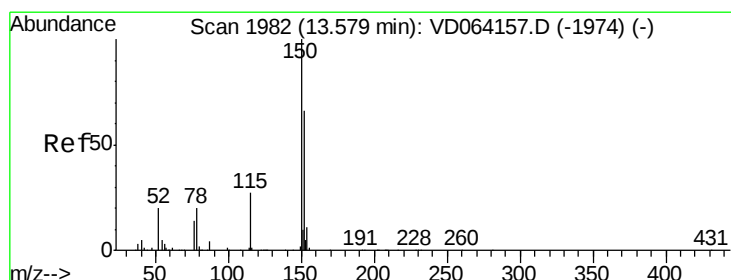
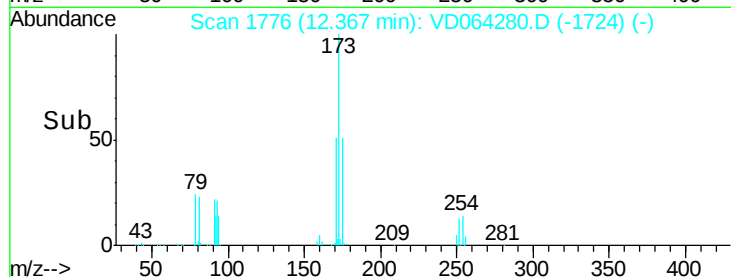
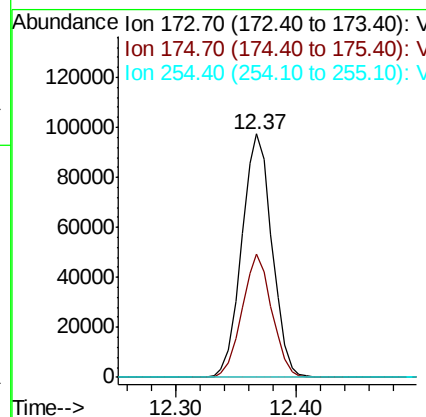
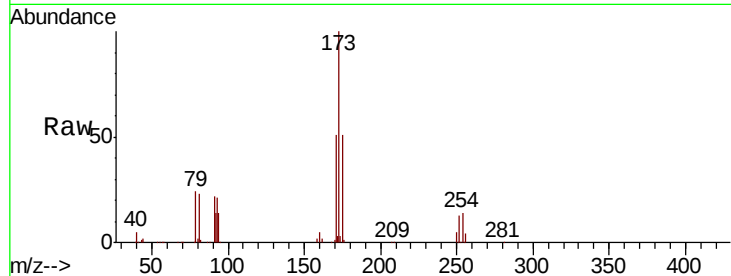
ClientSampleId :

VSTDCCC050

Tot Ion:	173	Resp:	170315
Ion Ratio	Lower	Upper	
173	100		
175	49.7	24.1	72.3
254	0.2	0.2	0.2

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

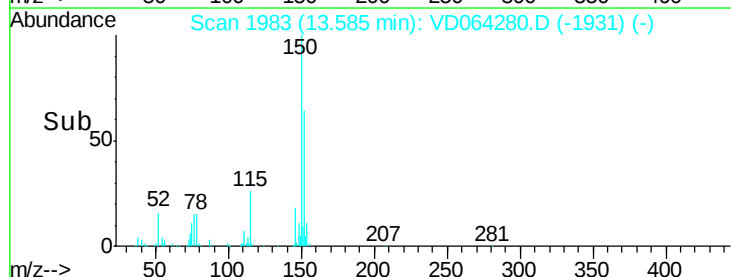
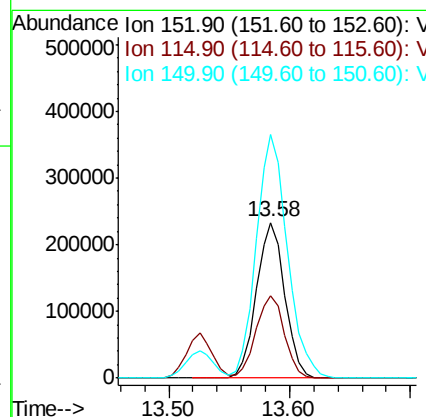
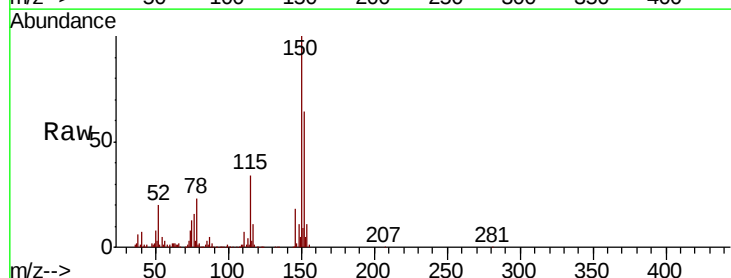
RT: 13.58 min Scan# 1983

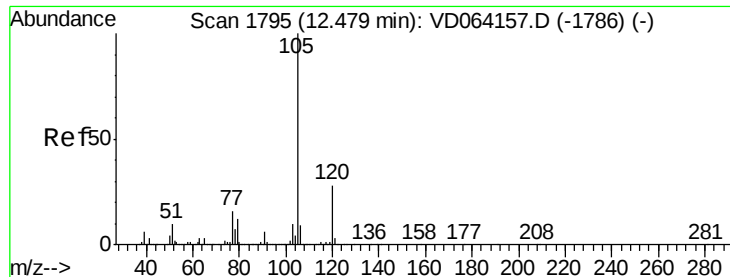
Delta R.T. 0.01 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Tgt Ion:	152	Resp:	381741
Ion Ratio	Lower	Upper	
152	100		
115	53.2	27.4	82.2
150	172.1	0.0	351.6





#73

Isopropylbenzene

Concen: 49.200 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.01 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1378566

Ion Ratio Lower Upper

105 100

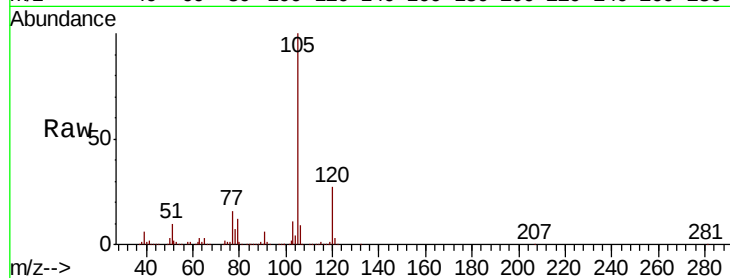
120 26.8 13.6 40.8

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

1000000

800000

600000

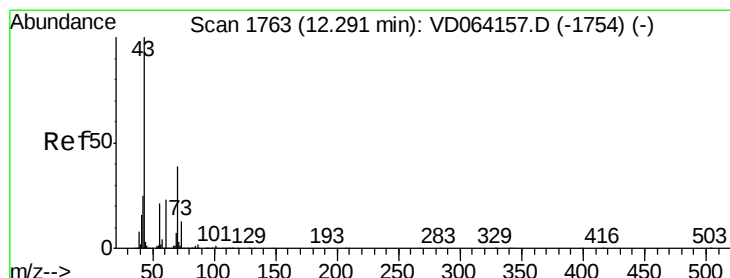
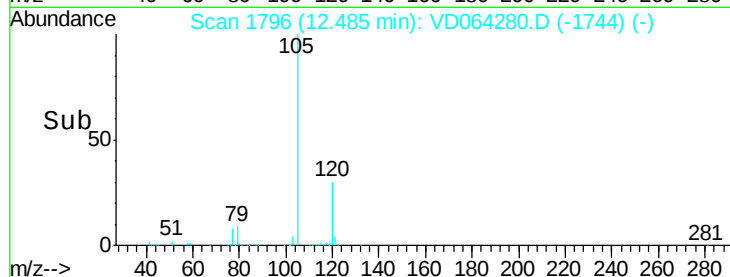
400000

200000

0

12.40 12.50 12.60

Time-->



#74

N-ethyl acetate

Concen: 46.437 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. 0.01 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Tgt Ion: 43 Resp: 307259

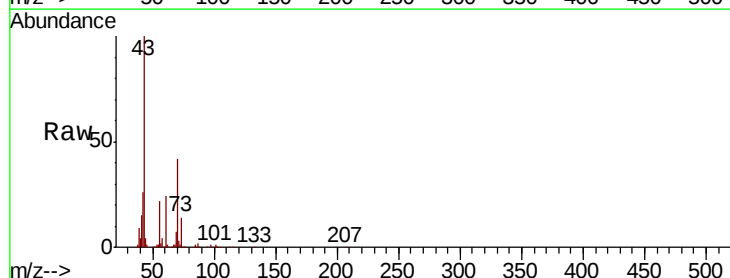
Ion Ratio Lower Upper

43 100

70 41.4 32.4 48.6

55 22.6 17.9 26.9

61 24.2 19.0 28.4



Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

300000

250000

200000

150000

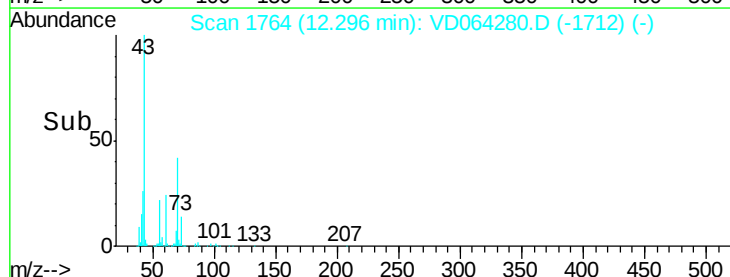
100000

50000

0

12.20 12.30

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 49.307 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. -0.00 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Instrument :

MSVOA_D

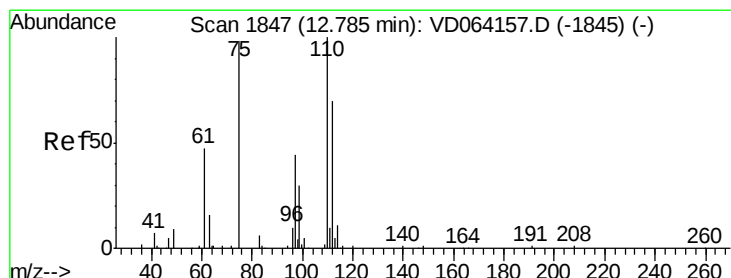
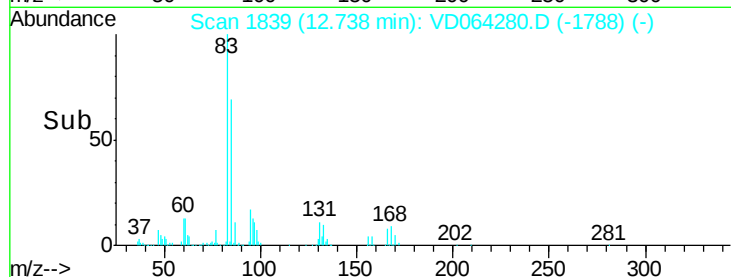
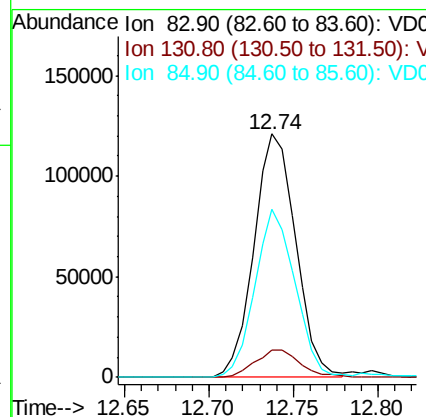
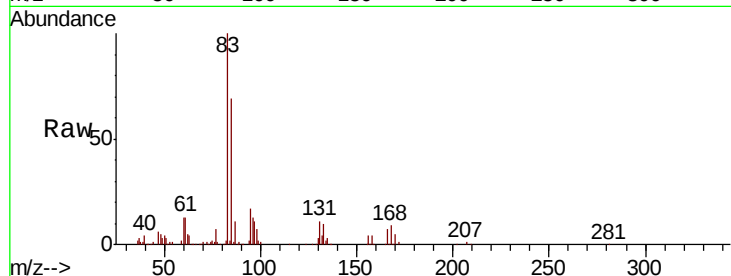
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	208177
Ion Ratio	Lower	Upper	
83	100		
131	12.2	5.9	17.7
85	66.7	32.5	97.5

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#76

1,2,3-Trichloropropane

Concen: 47.137 ug/l m

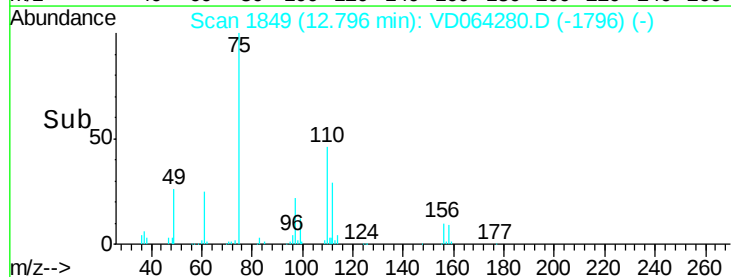
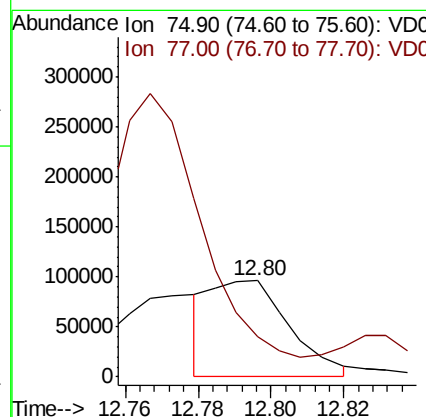
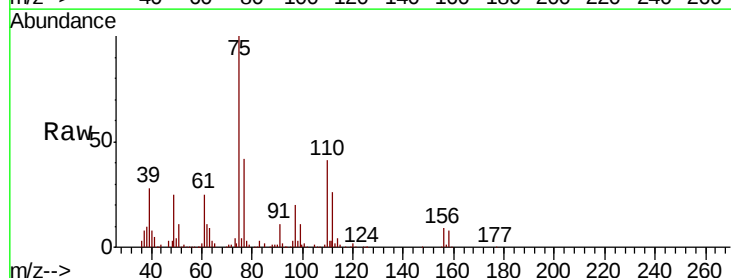
RT: 12.80 min Scan# 1849

Delta R.T. 0.01 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Tgt Ion:	75	Resp:	144936
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 49.063 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. -0.00 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Instrument :

MSVOA_D

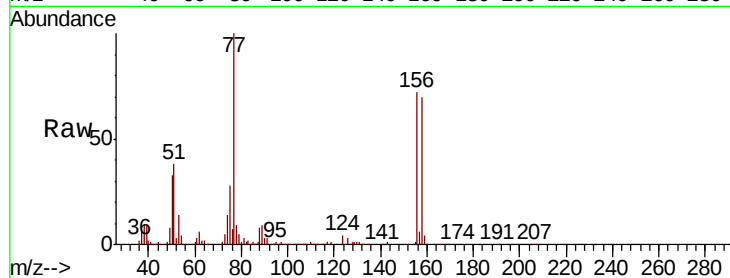
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
156	100		
77	159.4	81.2	243.4
158	97.8	48.4	145.2

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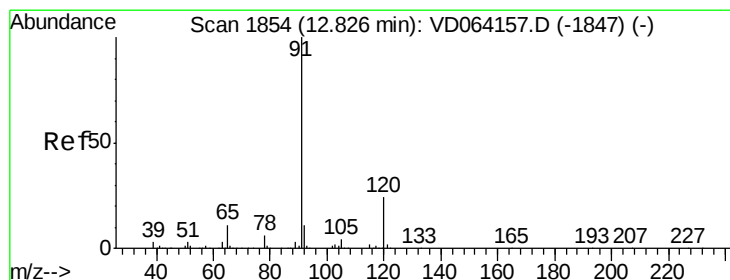
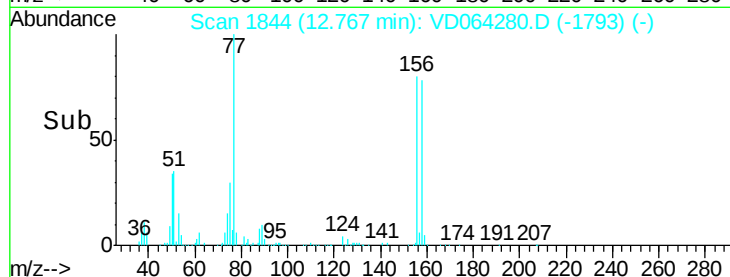
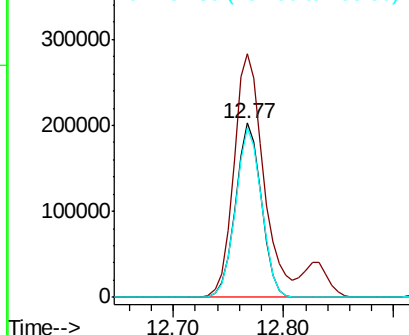
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 49.445 ug/l

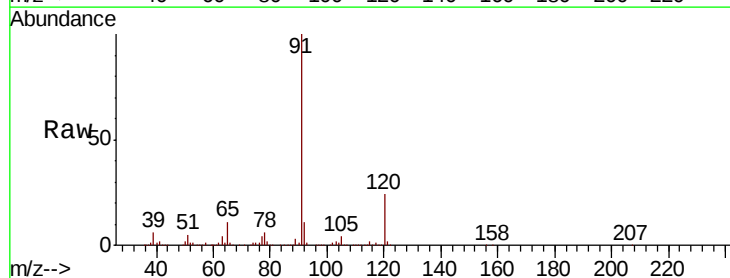
RT: 12.83 min Scan# 1854

Delta R.T. -0.00 min

Lab File: VD064280.D

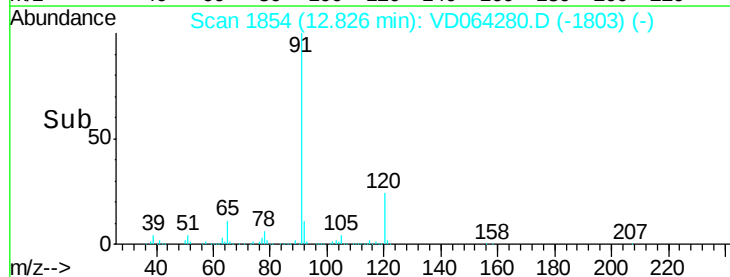
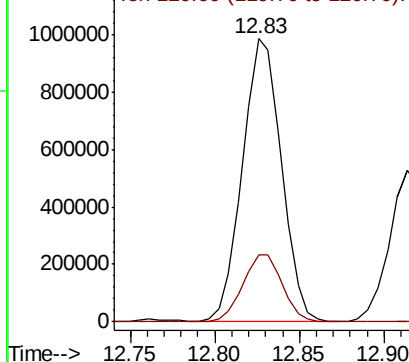
Acq: 19 Nov 2019 10:19

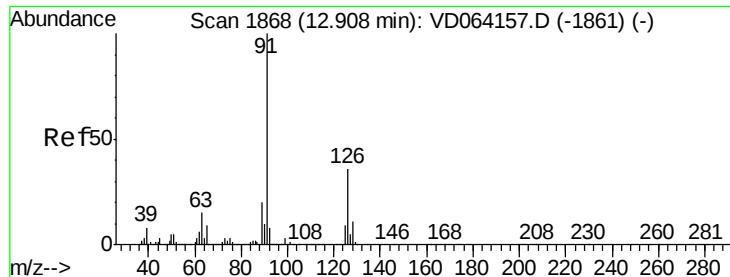
Tgt Ion	Ratio	Lower	Upper
91	100		
120	24.1	11.8	35.4



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V





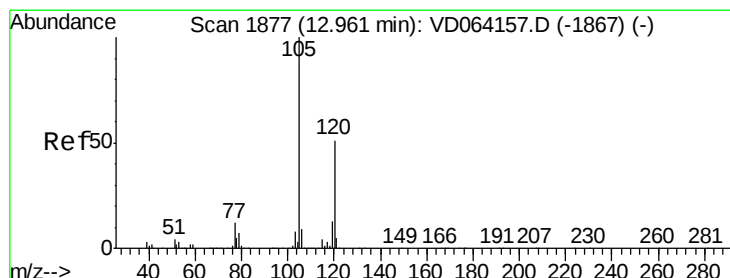
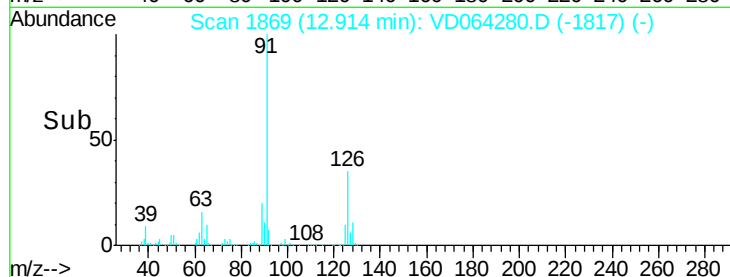
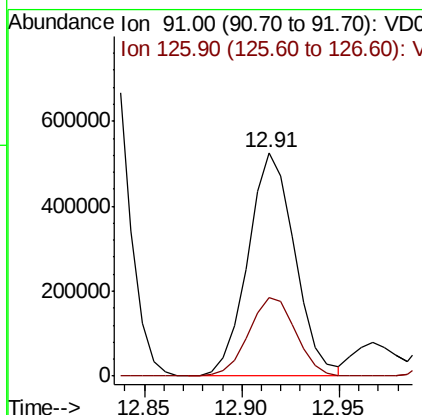
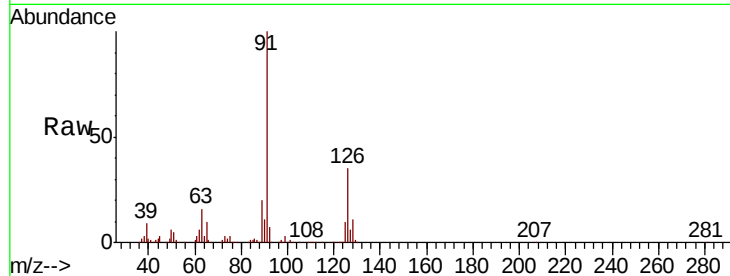
#79
2-Chlorotoluene
Concen: 48.323 ug/l
RT: 12.91 min Scan# 1869
Delta R.T. 0.01 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 873381
Ion Ratio Lower Upper
91 100
126 35.5 17.7 53.1

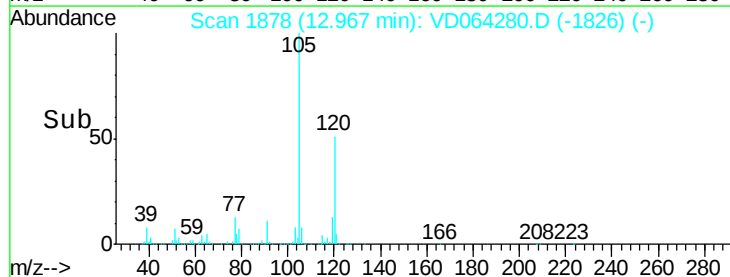
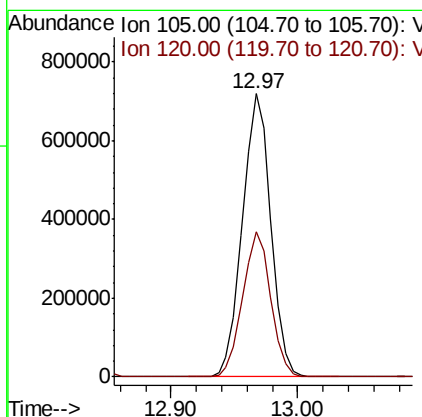
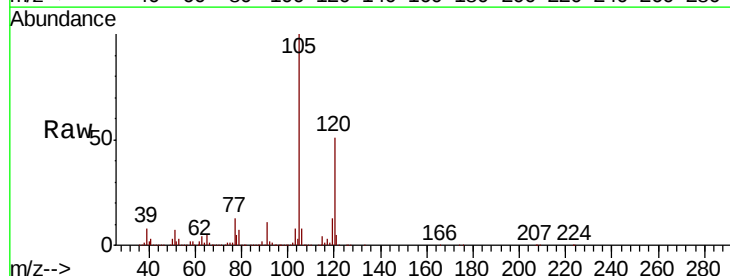
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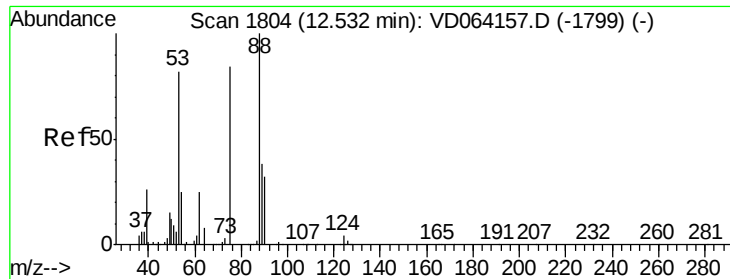
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#80
1,3,5-Trimethylbenzene
Concen: 48.332 ug/l
RT: 12.97 min Scan# 1878
Delta R.T. 0.01 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Tgt Ion: 105 Resp: 1112791
Ion Ratio Lower Upper
105 100
120 50.8 25.4 76.4





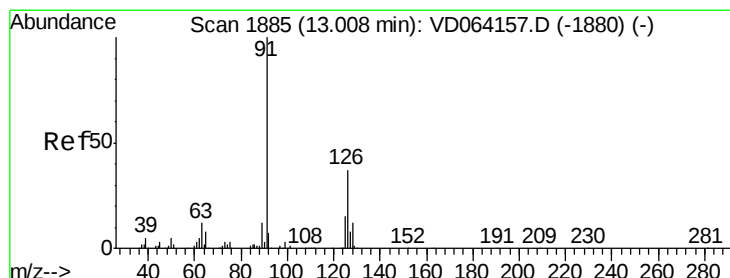
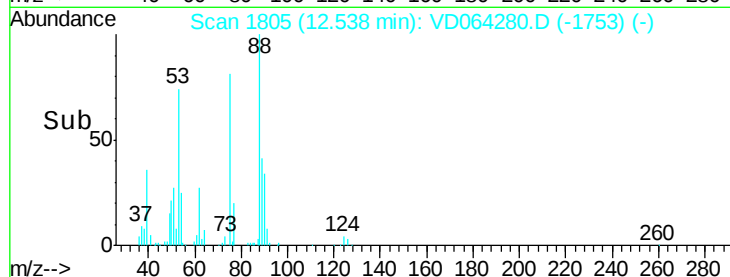
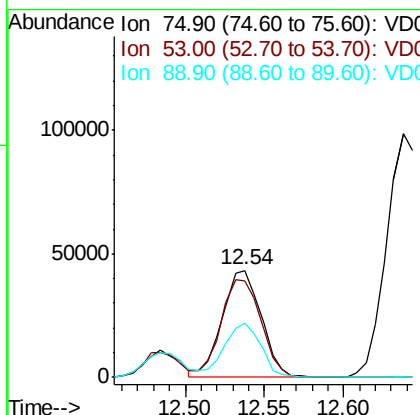
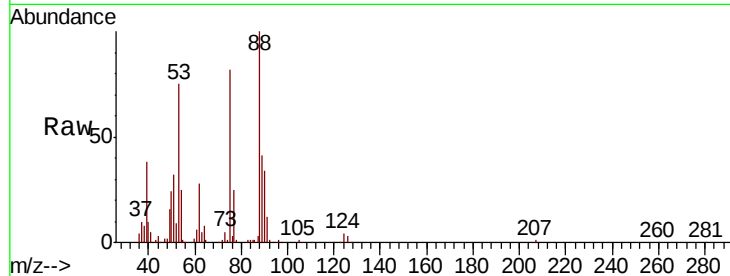
#81
trans-1,4-Dichloro-2-butene
Concen: 47.642 ug/l
RT: 12.54 min Scan# 1805
Delta R.T. 0.01 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	94.4	79.4	119.0
89	47.2	36.6	55.0

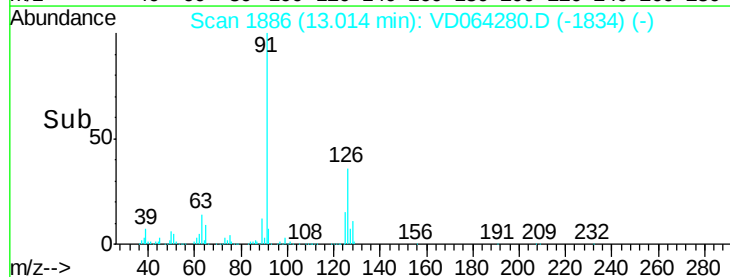
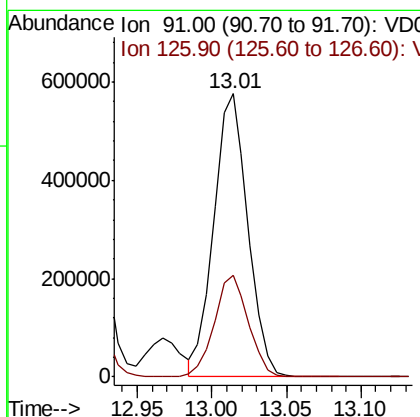
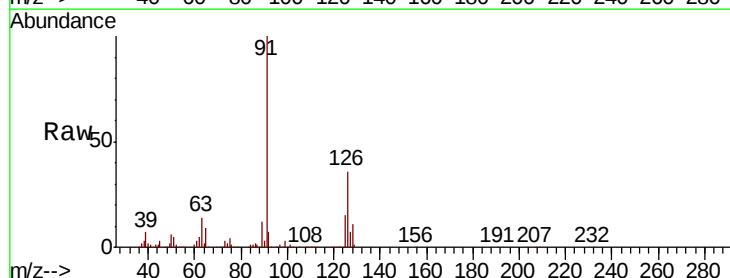
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#82
4-Chlorotoluene
Concen: 48.574 ug/l
RT: 13.01 min Scan# 1886
Delta R.T. 0.01 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Tgt Ion	Ratio	Lower	Upper
91	100		
126	36.1	17.8	53.4





#83

tert-Butylbenzene

Concen: 48.220 ug/l

RT: 13.23 min Scan# 1923

Delta R.T. 0.01 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Instrument :

MSVOA_D

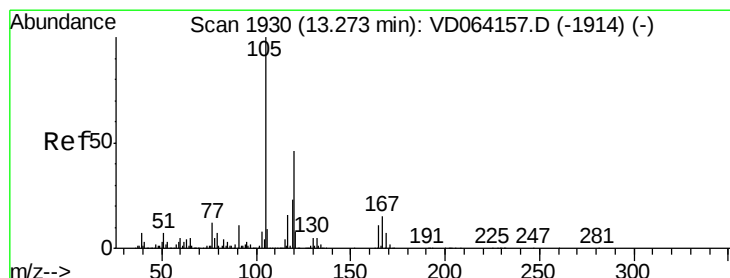
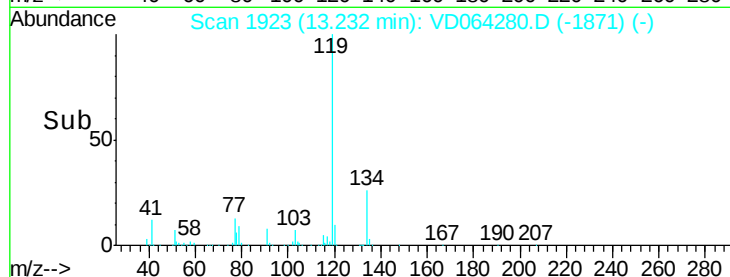
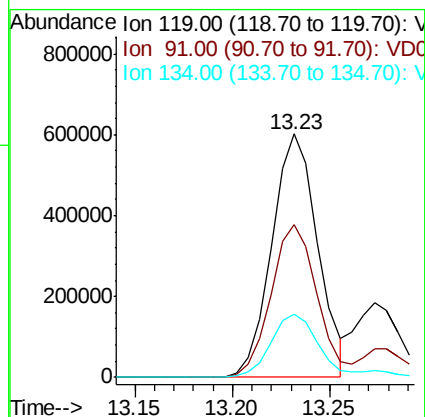
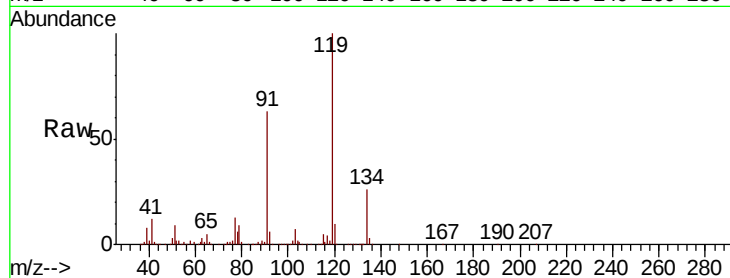
ClientSampleId :

VSTDCCC050

Tot Ion:	119	Resp:	978966
Ion Ratio	Lower	Upper	
119	100		
91	63.4	31.8	95.4
134	28.6	13.7	41.0

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#84

1,2,4-Trimethylbenzene

Concen: 49.071 ug/l

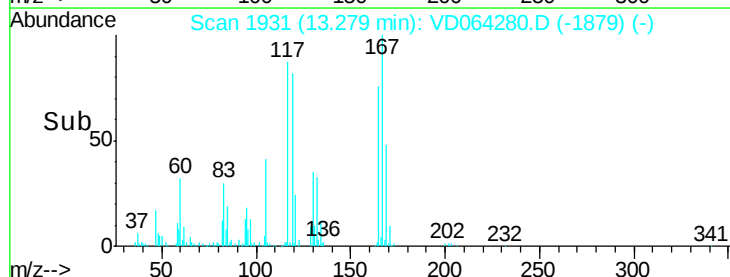
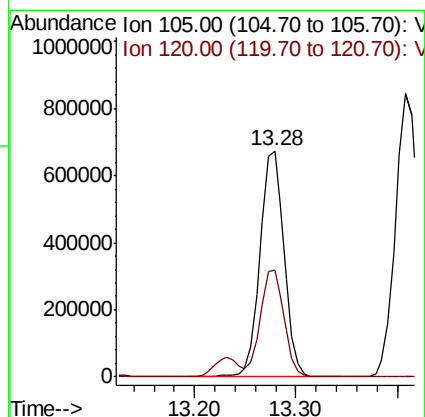
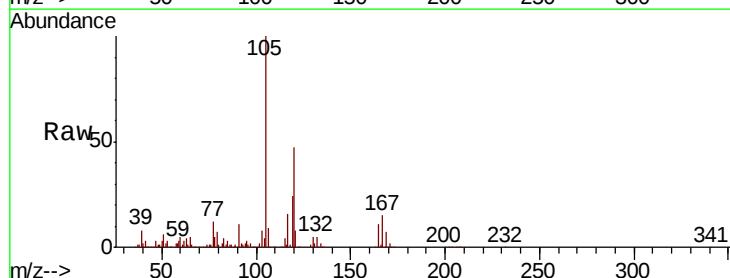
RT: 13.28 min Scan# 1931

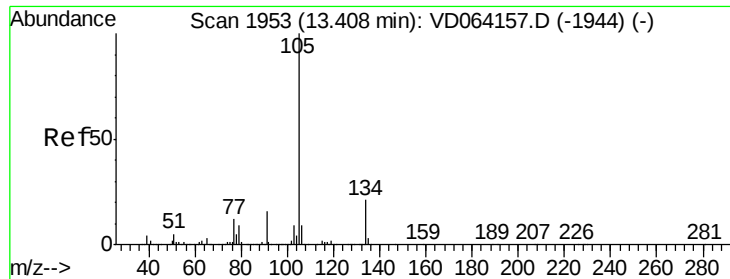
Delta R.T. 0.01 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Tgt Ion:	105	Resp:	1115409
Ion Ratio	Lower	Upper	
105	100		
120	46.6	23.3	69.8





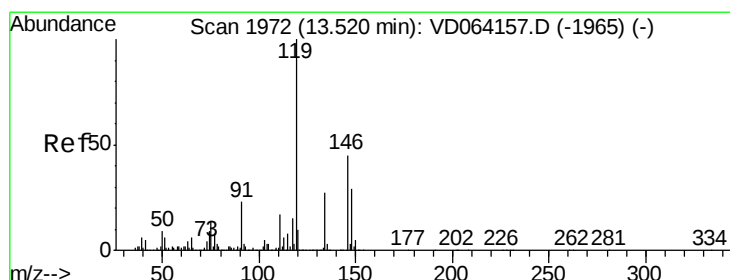
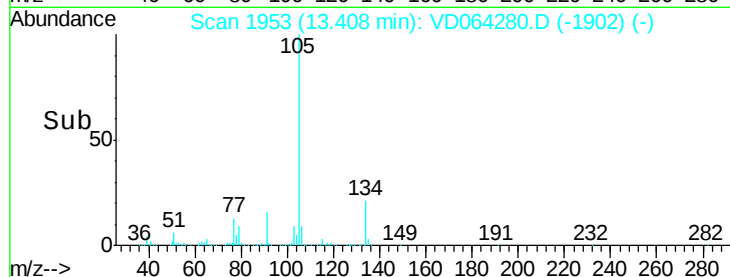
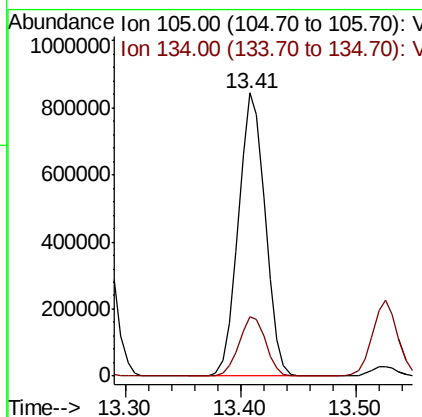
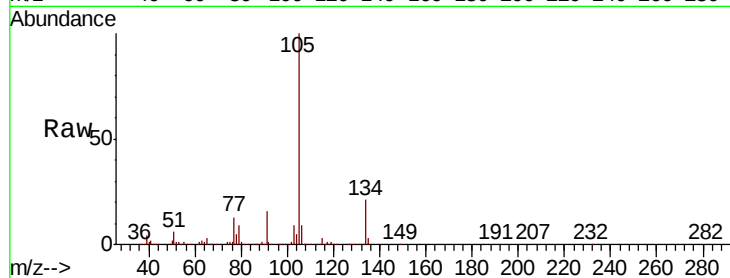
#85
 sec-Butylbenzene
 Concen: 49.716 ug/l
 RT: 13.41 min Scan# 1953
 Delta R.T. -0.00 min
 Lab File: VD064280.D
 Acq: 19 Nov 2019 10:19

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:105 Resp: 1355617
 Ion Ratio Lower Upper
 105 100
 134 21.0 10.7 31.9

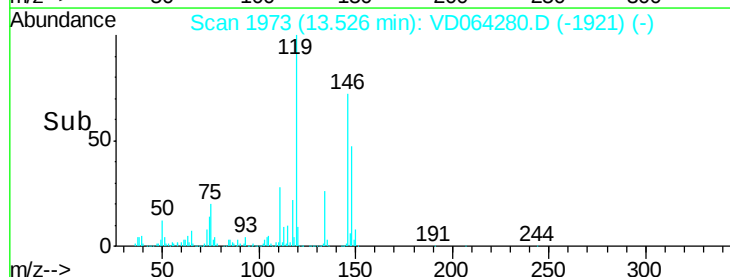
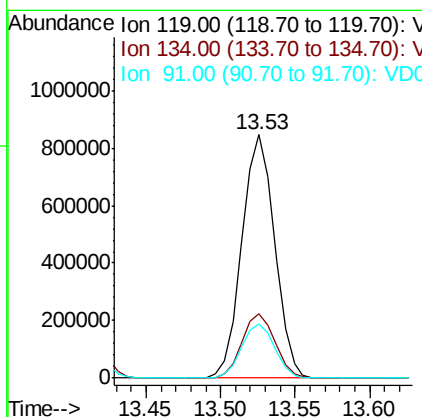
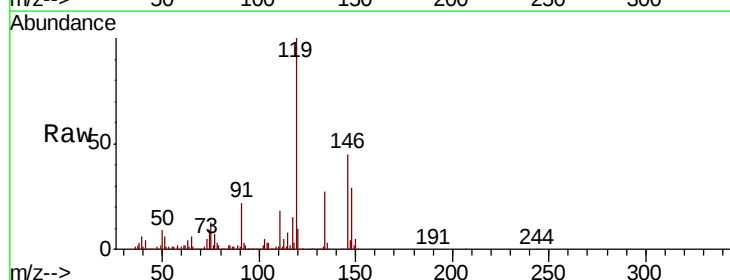
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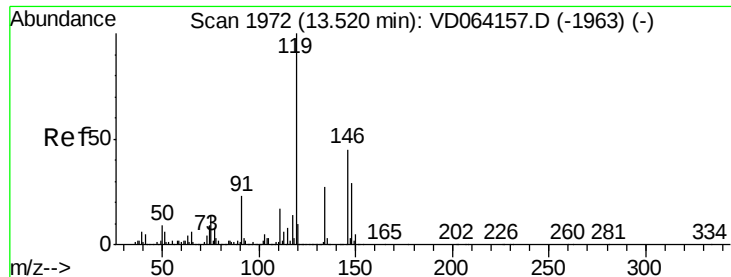
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#86
 p-Isopropyltoluene
 Concen: 49.704 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.01 min
 Lab File: VD064280.D
 Acq: 19 Nov 2019 10:19

Tgt Ion:119 Resp: 1288485
 Ion Ratio Lower Upper
 119 100
 134 26.7 13.5 40.5
 91 22.4 11.5 34.4





#87

1,3-Dichlorobenzene

Concen: 49.564 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.01 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Instrument :

MSVOA_D

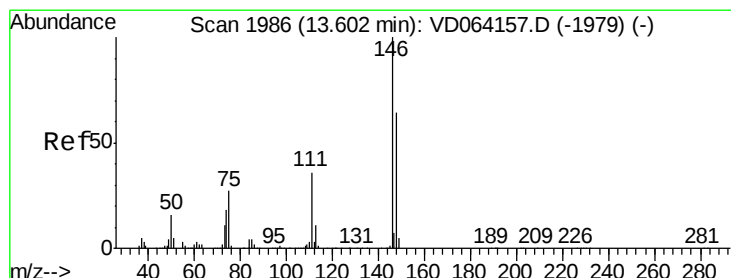
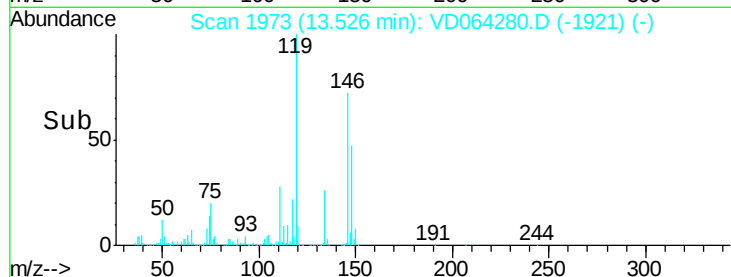
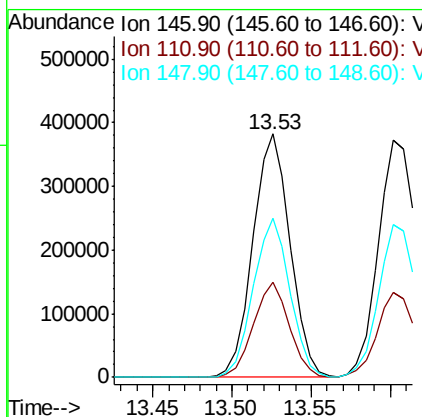
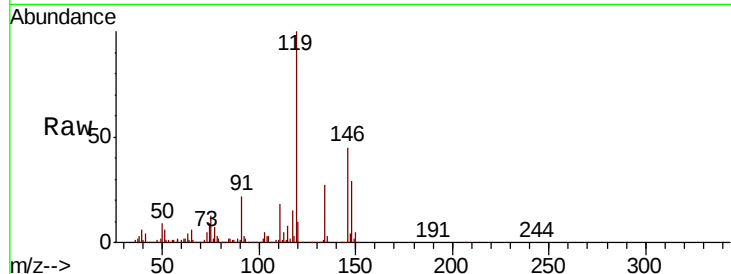
ClientSampleId :

VSTDCCC050

Tot Ion:	146	Resp:	626299
Ion Ratio	Lower	Upper	
146	100		
111	37.8	18.9	56.9
148	64.2	32.1	96.5

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#88

1,4-Dichlorobenzene

Concen: 50.364 ug/l

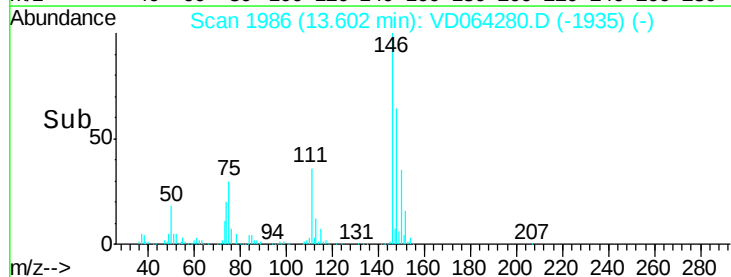
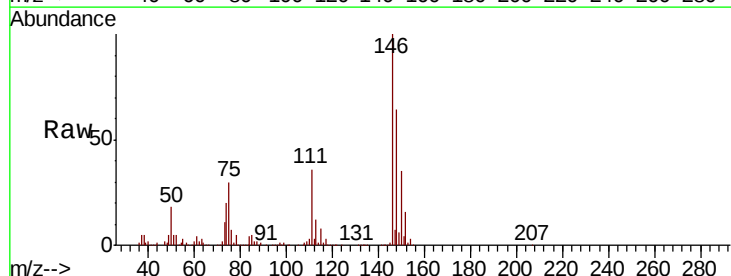
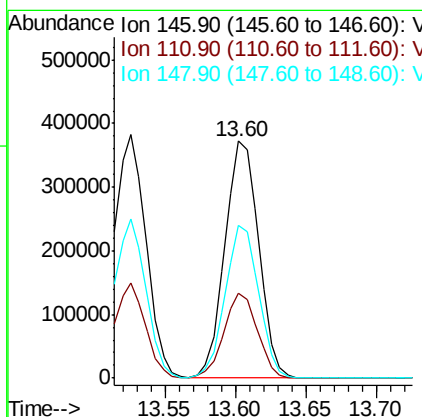
RT: 13.60 min Scan# 1986

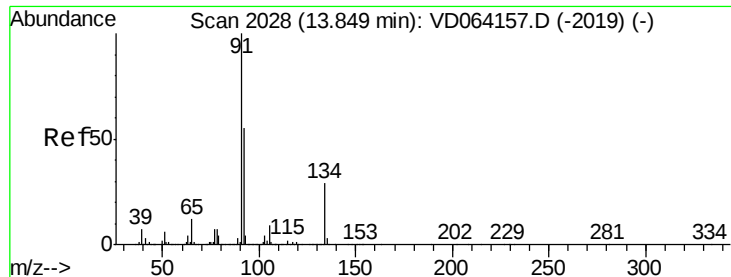
Delta R.T. -0.00 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Tgt Ion:	146	Resp:	621119
Ion Ratio	Lower	Upper	
146	100		
111	35.7	18.1	54.4
148	63.8	31.9	95.7





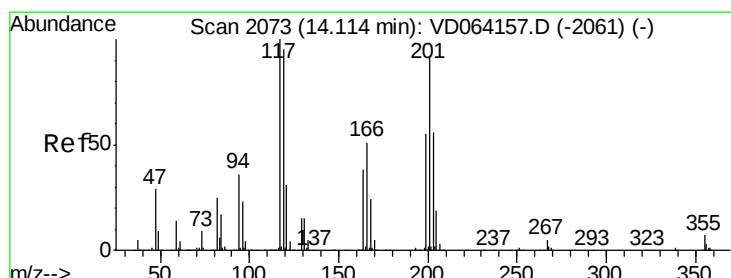
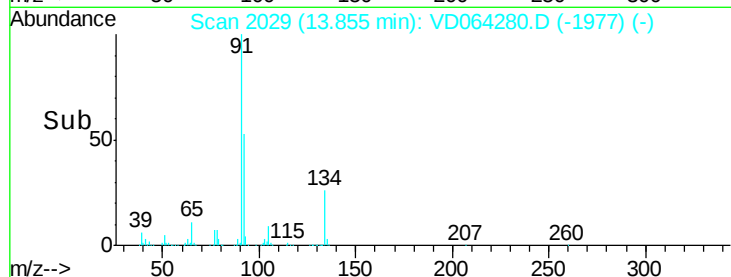
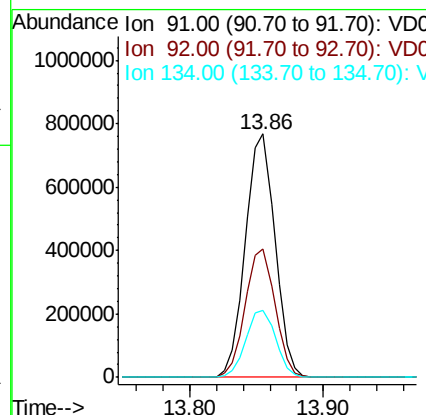
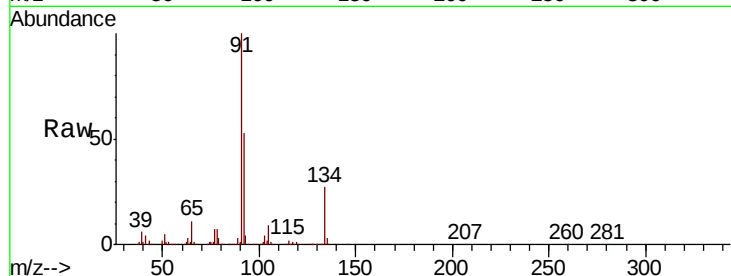
#89
n-Butylbenzene
Concen: 50.237 ug/l
RT: 13.86 min Scan# 2029
Delta R.T. 0.01 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1176560
Ion Ratio Lower Upper
91 100
92 53.3 27.3 81.8
134 27.8 14.1 42.4

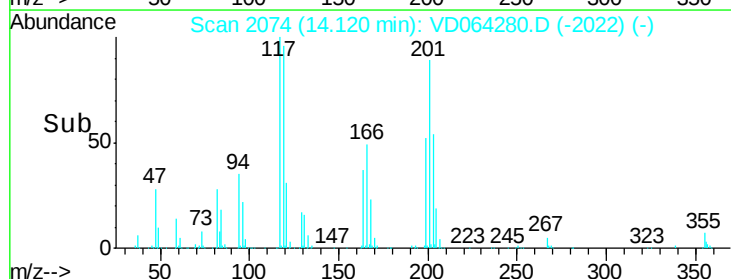
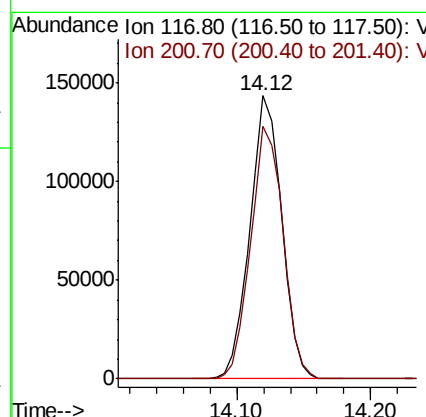
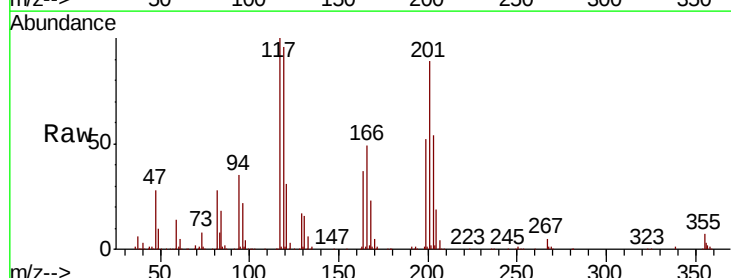
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#90
Hexachloroethane
Concen: 49.139 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.01 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Tgt Ion: 117 Resp: 235416
Ion Ratio Lower Upper
117 100
201 91.1 45.8 137.4





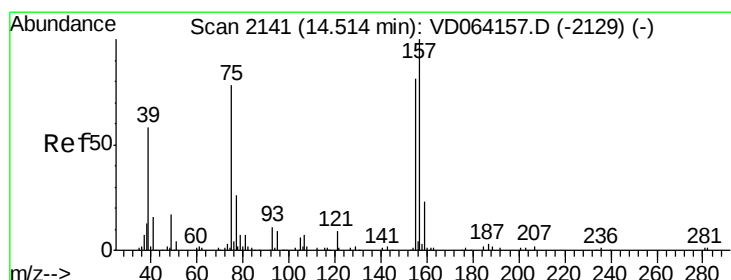
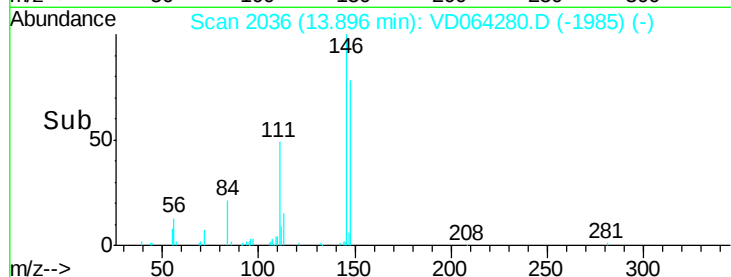
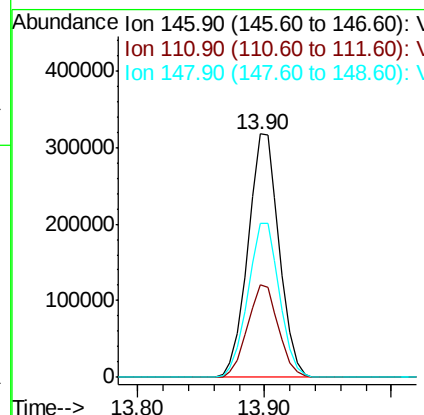
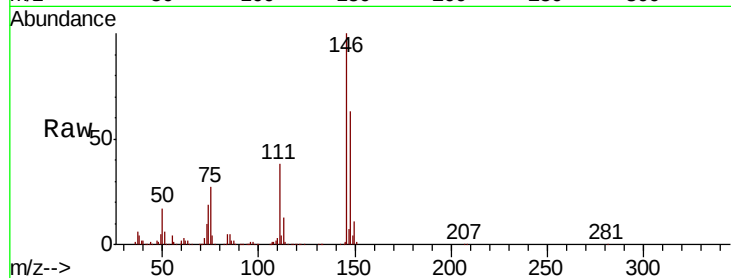
#91
 1,2-Dichlorobenzene
 Concen: 50.594 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. -0.00 min
 Lab File: VD064280.D
 Acq: 19 Nov 2019 10:19

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.8	19.7	59.0
148	64.2	32.3	96.8

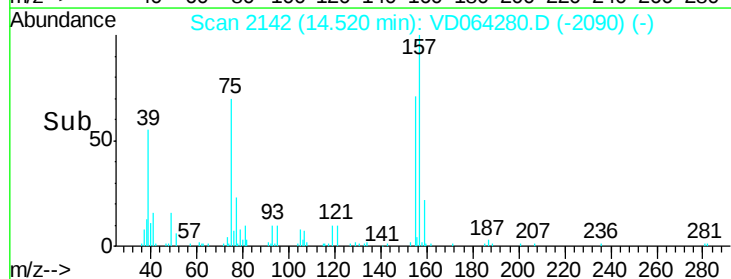
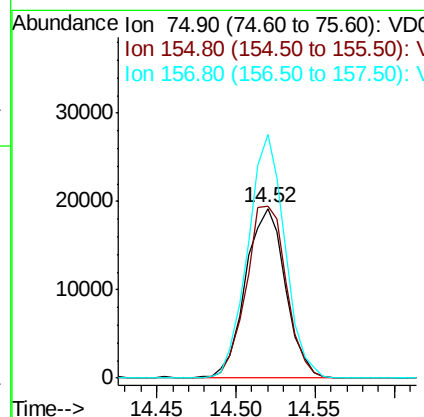
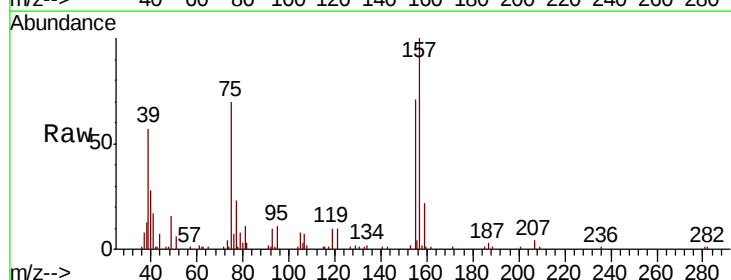
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 44.779 ug/l
 RT: 14.52 min Scan# 2142
 Delta R.T. 0.01 min
 Lab File: VD064280.D
 Acq: 19 Nov 2019 10:19

Tgt Ion	Ratio	Lower	Upper
75	100		
155	101.5	48.0	144.0
157	132.2	61.5	184.4





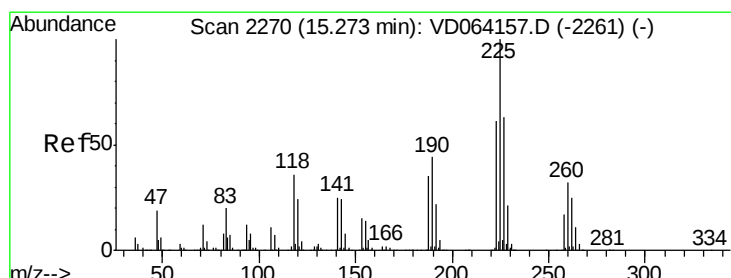
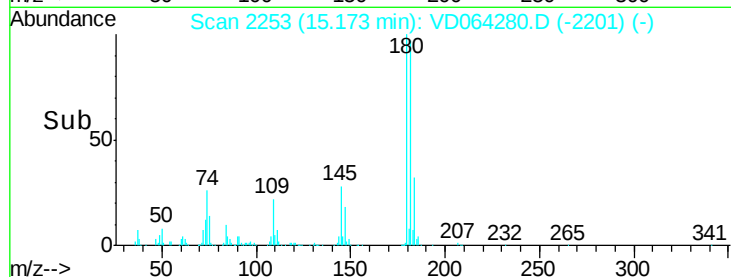
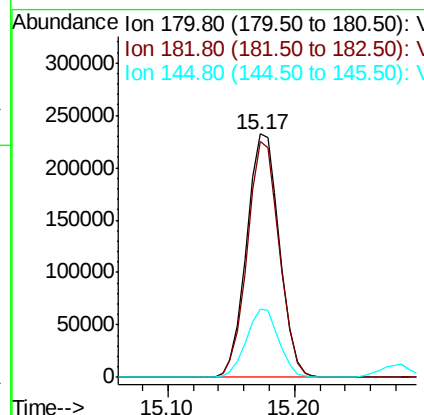
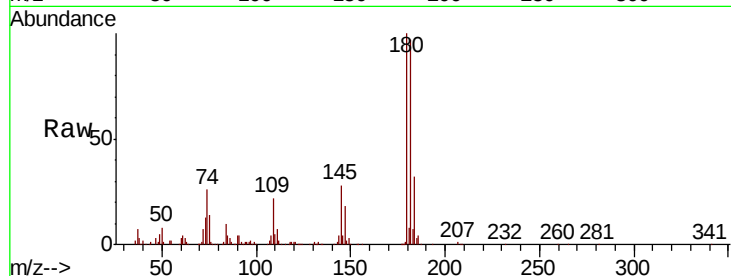
#93
1,2,4-Trichlorobenzene
Concen: 50.377 ug/l
RT: 15.17 min Scan# 2253
Delta R.T. 0.01 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	415631		
182	95.0	47.5	142.5	
145	28.0	14.2	42.6	

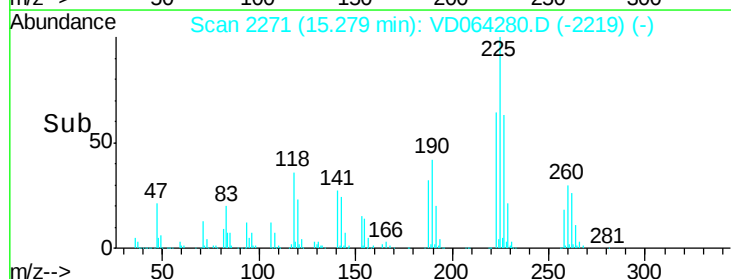
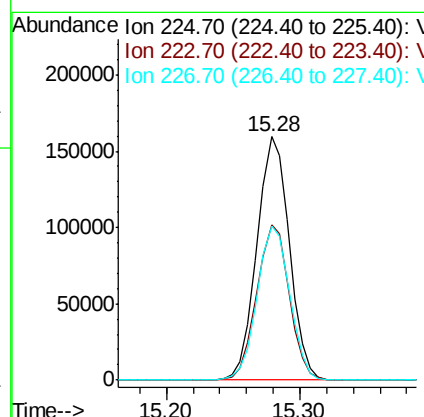
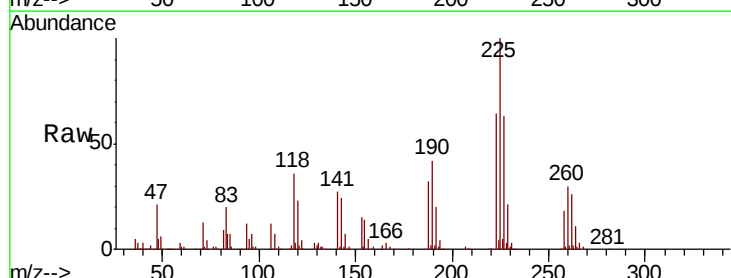
Manual Integrations
APPROVED

MMDadoda
11/20/2019 9:56:44 AM



#94
Hexachlorobutadiene
Concen: 50.249 ug/l
RT: 15.28 min Scan# 2271
Delta R.T. 0.01 min
Lab File: VD064280.D
Acq: 19 Nov 2019 10:19

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	267777		
223	63.7	31.1	93.3	
227	63.4	31.5	94.5	





#95

Naphthalene

Concen: 49.634 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.01 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Instrument :

MSVOA_D

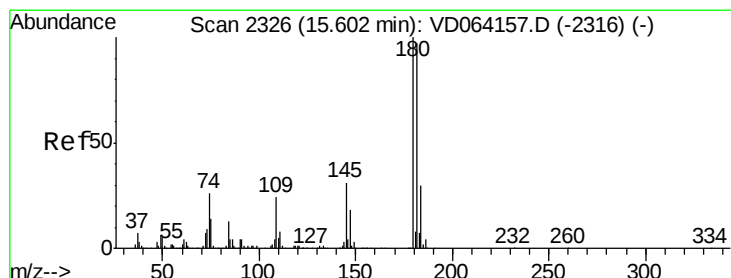
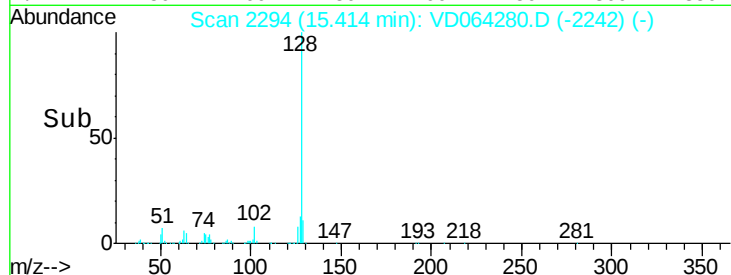
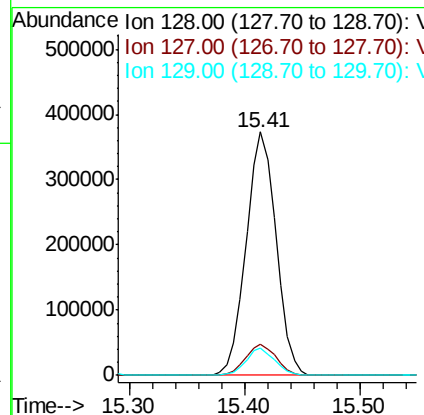
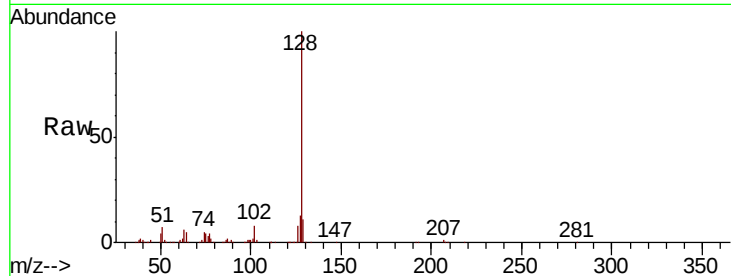
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	671275
Ion Ratio		Lower	Upper
128	100		
127	13.1	10.5	15.7
129	10.8	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
11/20/2019 9:56:44 AM



#96

1,2,3-Trichlorobenzene

Concen: 50.442 ug/l

RT: 15.61 min Scan# 2327

Delta R.T. 0.01 min

Lab File: VD064280.D

Acq: 19 Nov 2019 10:19

Tgt Ion:	180	Resp:	353758
Ion Ratio		Lower	Upper
180	100		
182	95.3	48.3	144.9
145	29.9	15.3	45.8

