

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072219\
 Data File : VD063168.D
 Acq On : 22 Jul 2019 10:53
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 7/23/2019 10:40:12 AM

Quant Time: Jul 23 07:56:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	744593	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.23	114	993684	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	851670	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	455777	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.46	65	422869	45.59	ug/l	0.01
Spiked Amount	50.000		Recovery	=	91.18%	
35) Dibromofluoromethane	6.94	113	484171	48.92	ug/l	0.02
Spiked Amount	50.000		Recovery	=	97.84%	
50) Toluene-d8	10.41	98	948290	44.61	ug/l	0.01
Spiked Amount	50.000		Recovery	=	89.22%	
62) 4-Bromofluorobenzene	13.56	95	448138	45.56	ug/l	0.01
Spiked Amount	50.000		Recovery	=	91.12%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.57	85	402753	50.784	ug/l	98
3) Chloromethane	1.76	50	328168	48.595	ug/l	96
4) Vinyl Chloride	1.85	62	354311	44.585	ug/l	99
5) Bromomethane	2.15	94	135792	44.460	ug/l	97
6) Chloroethane	2.27	64	186391	50.492	ug/l #	89
7) Trichlorofluoromethane	2.54	101	782007	48.610	ug/l	100
8) Diethyl Ether	2.88	74	128455	56.764	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	3.15	101	444516	47.920	ug/l	95
10) Methyl Iodide	3.31	142	571406	50.176	ug/l	96
11) Tert butyl alcohol	4.09	59	140418	262.321	ug/l #	90
12) 1,1-Dichloroethene	3.13	96	302776	45.965	ug/l	97
13) Acrolein	3.04	56	26687	165.184	ug/l	98
14) Allyl chloride	3.62	41	514827	49.729	ug/l	98
15) Acrylonitrile	4.21	53	325722	275.274	ug/l	99
16) Acetone	3.23	43	641423	286.316	ug/l	97
17) Carbon Disulfide	3.37	76	794440	42.135	ug/l	98
18) Methyl Acetate	3.65	43	166559	55.635	ug/l #	84
19) Methyl tert-butyl Ether	4.25	73	907627	54.584	ug/l	97
20) Methylene Chloride	3.82	84	382807	45.230	ug/l	94
21) trans-1,2-Dichloroethene	4.22	96	362406	49.560	ug/l	96
22) Diisopropyl ether	5.14	45	1203590	53.472	ug/l	99
23) Vinyl Acetate	5.07	43	3876669	295.210	ug/l	100
24) 1,1-Dichloroethane	4.99	63	718762	51.840	ug/l	98
25) 2-Butanone	6.08	43	623248	291.337	ug/l	96
26) 2,2-Dichloropropane	6.03	77	774439	50.469	ug/l	97
27) cis-1,2-Dichloroethene	6.05	96	405985	48.806	ug/l	95
28) Bromochloromethane	6.45	49	236797	47.075	ug/l	81
29) Tetrahydrofuran	6.48	42	271414	279.881	ug/l	97
30) Chloroform	6.67	83	869370	50.913	ug/l	97
31) Cyclohexane	6.97	56	423635	47.977	ug/l	95
32) 1,1,1-Trichloroethane	6.88	97	851436	50.566	ug/l	97
36) 1,1-Dichloropropene	7.15	75	538995	48.229	ug/l	96
37) Ethyl Acetate	6.20	43	291618	60.971	ug/l	98
38) Carbon Tetrachloride	7.12	117	834150m	49.120	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.88	83	448036	46.371	ug/l	98
40) Benzene	7.46	78	1182658	50.527	ug/l	95
41) Methacrylonitrile	6.47	41	362360	55.881	ug/l #	91
42) 1,2-Dichloroethane	7.59	62	646078	51.810	ug/l	99
43) Isopropyl Acetate	9.25	43	394730	57.577	ug/l	94
44) Trichloroethene	8.55	130	473827	52.381	ug/l	98
45) 1,2-Dichloropropane	8.95	63	312519	53.552	ug/l	94
46) Dibromomethane	9.07	93	270946	54.029	ug/l	93
47) Bromodichloromethane	9.38	83	693382	52.985	ug/l	96
48) Methyl methacrylate	9.13	41	252446	56.073	ug/l	97
49) 1,4-Dioxane	9.09	88	46024	1185.364	ug/l #	83
51) 4-Methyl-2-Pentanone	10.31	43	1363335	299.829	ug/l	100
52) Toluene	10.52	92	803044	51.377	ug/l	96
53) t-1,3-Dichloropropene	10.92	75	622433	55.517	ug/l	100
54) cis-1,3-Dichloropropene	10.05	75	640858	55.281	ug/l	96
55) 1,1,2-Trichloroethane	11.20	97	302880	56.073	ug/l	96
56) Ethyl methacrylate	11.05	69	351858	58.301	ug/l	92
57) 1,3-Dichloropropane	11.42	76	447020	54.387	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.87	63	887835	264.204	ug/l	98
59) 2-Hexanone	11.54	43	1076547	306.995	ug/l	99
60) Dibromochloromethane	11.69	129	556139	53.712	ug/l	94
61) 1,2-Dibromoethane	11.81	107	345643	53.459	ug/l	96
64) Tetrachloroethene	11.27	164	400717	48.489	ug/l	94
65) Chlorobenzene	12.40	112	1043445	52.119	ug/l	97
66) 1,1,1,2-Tetrachloroethane	12.52	131	492334	53.042	ug/l	98
67) Ethyl Benzene	12.53	91	1737930	49.961	ug/l	97
68) m/p-Xylenes	12.68	106	1183107	94.958	ug/l	98
69) o-Xylene	13.05	106	574534	48.632	ug/l	97
70) Styrene	13.08	104	1031800	49.895	ug/l	97
71) Bromoform	13.24	173	385229	59.281	ug/l	98
73) Isopropylbenzene	13.41	105	1783186	50.661	ug/l	99
74) N-amyl acetate	13.27	43	527715	53.758	ug/l	95
75) 1,1,2,2-Tetrachloroethane	13.70	83	337770	52.743	ug/l	96
76) 1,2,3-Trichloropropane	13.74	75	384044	54.776	ug/l	97
77) Bromobenzene	13.67	156	528941	52.991	ug/l	80
78) n-propylbenzene	13.78	91	2108427	52.053	ug/l	97
79) 2-Chlorotoluene	13.85	91	1175484	47.997	ug/l	91
80) 1,3,5-Trimethylbenzene	13.94	105	1438490	46.891	ug/l	98
81) trans-1,4-Dichloro-2-buten	13.47	75	108163	58.584	ug/l	90
82) 4-Chlorotoluene	13.95	91	1432732	50.098	ug/l	91
83) tert-Butylbenzene	14.19	119	1690740	48.743	ug/l	91
84) 1,2,4-Trimethylbenzene	14.24	105	1471564	48.116	ug/l	98
85) sec-Butylbenzene	14.37	105	1744911	47.347	ug/l	97
86) p-Isopropyltoluene	14.50	119	1784636	51.909	ug/l	96
87) 1,3-Dichlorobenzene	14.46	146	921996	51.723	ug/l	98
88) 1,4-Dichlorobenzene	14.54	146	862965	50.497	ug/l	93
89) n-Butylbenzene	14.80	91	1493522	47.131	ug/l	97
90) Hexachloroethane	15.01	117	462294	50.300	ug/l	85
91) 1,2-Dichlorobenzene	14.81	146	786364	49.541	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	15.38	75	73216	59.645	ug/l	75

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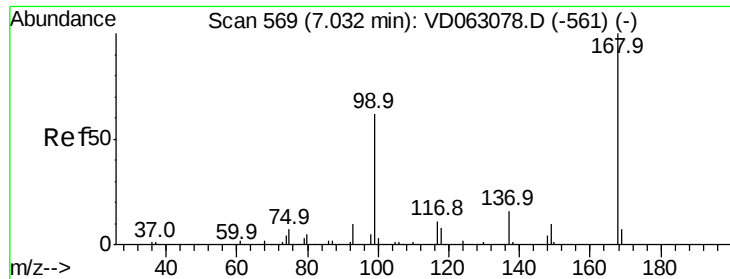
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	632373	53.028	ug/l	97
94) Hexachlorobutadiene	16.04	225	437578	49.781	ug/l	98
95) Naphthalene	16.12	128	990175	56.763	ug/l	98
96) 1,2,3-Trichlorobenzene	16.27	180	518517	54.050	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.02 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 744593

Ion Ratio Lower Upper

168 100

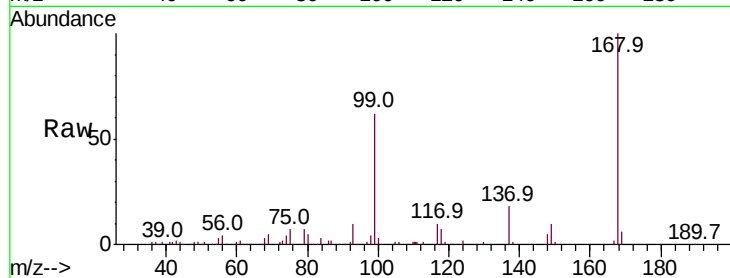
99 62.0 50.8 76.2

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

300000

250000

200000

150000

100000

50000

0

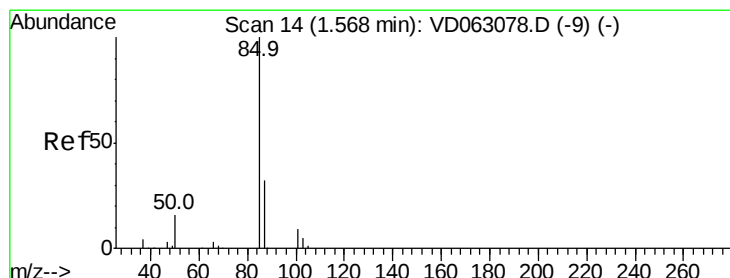
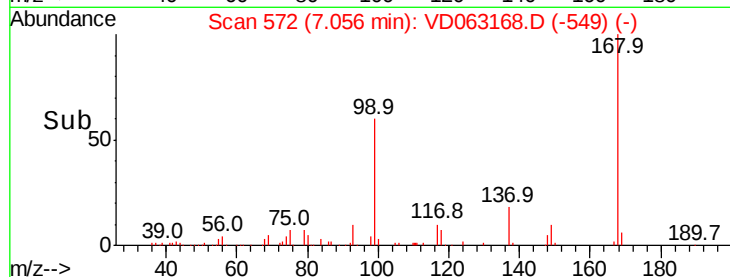
6.90

7.00

7.10

7.20

Time-->



#2

Dichlorodifluoromethane

Concen: 50.784 ug/l

RT: 1.57 min Scan# 15

Delta R.T. 0.00 min

Lab File: VD063168.D

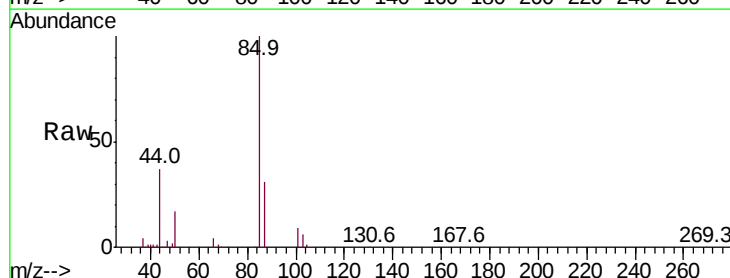
Acq: 22 Jul 2019 10:53

Tgt Ion: 85 Resp: 402753

Ion Ratio Lower Upper

85 100

87 30.7 15.9 47.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

150000

100000

50000

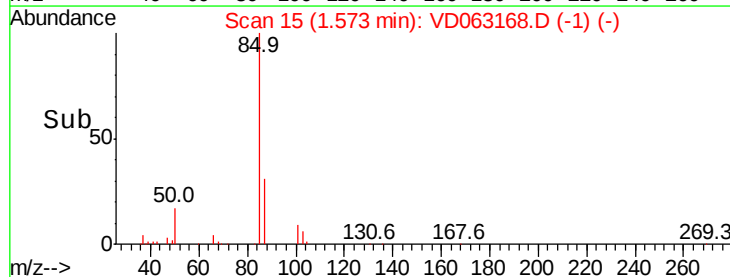
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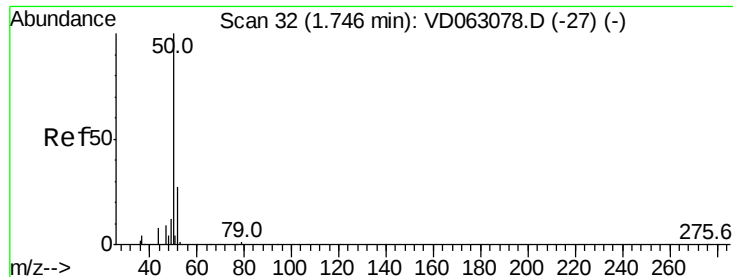
1.50

1.60

1.70

Time-->





#3

Chloromethane

Concen: 48.595 ug/l

RT: 1.76 min Scan# 34

Delta R.T. 0.01 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 328168

Ion Ratio Lower Upper

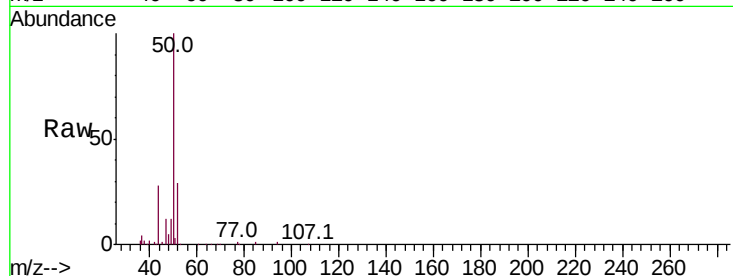
50 100

52 29.0 21.4 32.2

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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.76

100000

80000

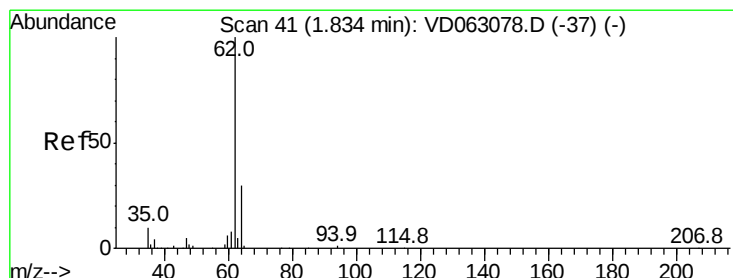
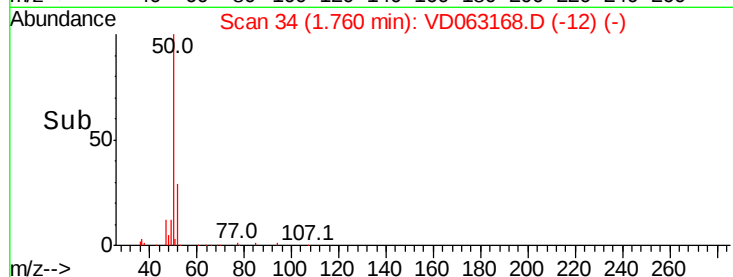
60000

40000

20000

0

Time--> 1.60 1.70 1.80 1.90



#4

Vinyl Chloride

Concen: 44.585 ug/l

RT: 1.85 min Scan# 43

Delta R.T. 0.01 min

Lab File: VD063168.D

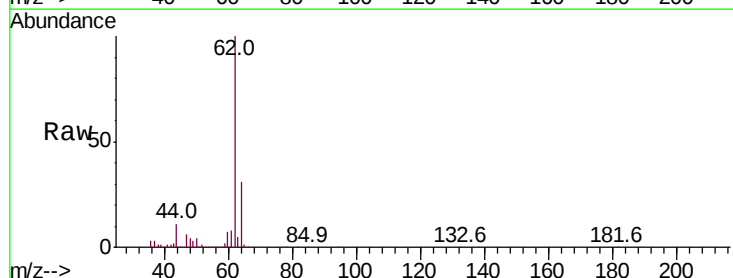
Acq: 22 Jul 2019 10:53

Tgt Ion: 62 Resp: 354311

Ion Ratio Lower Upper

62 100

64 31.3 24.4 36.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

1.85

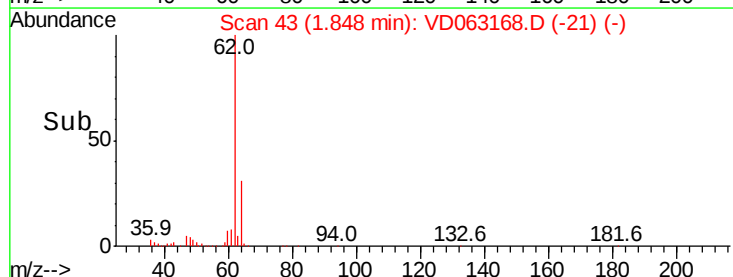
150000

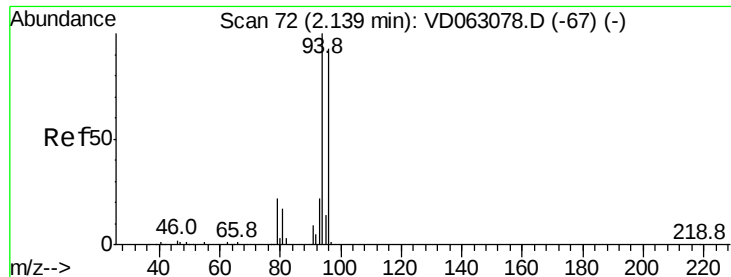
100000

50000

0

Time--> 1.80 1.90 2.00





#5

Bromomethane

Concen: 44.460 ug/l

RT: 2.15 min Scan# 74

Delta R.T. 0.01 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

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Tot Ion: 94 Resp: 135792

Ion Ratio Lower Upper

94 100

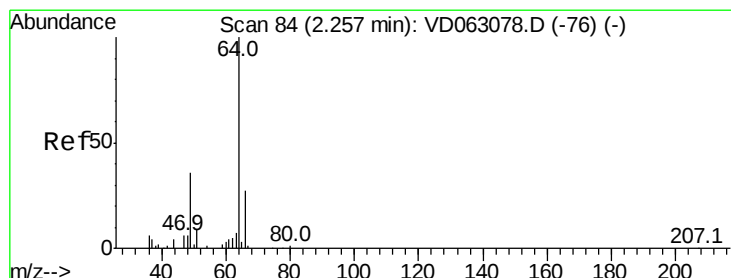
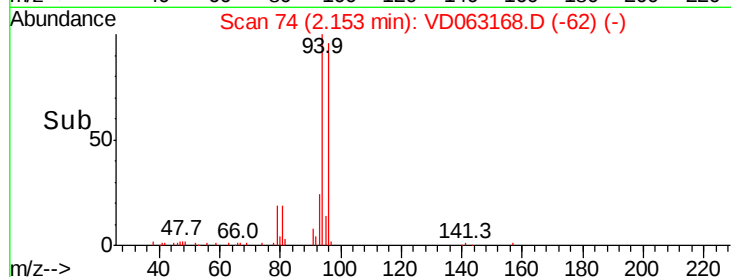
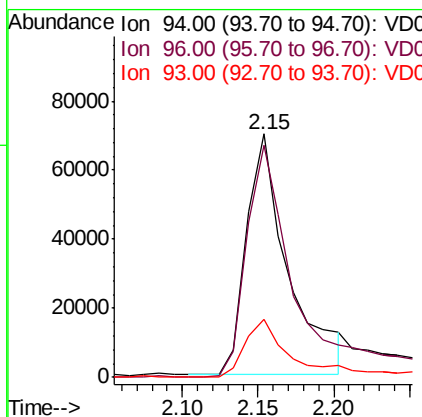
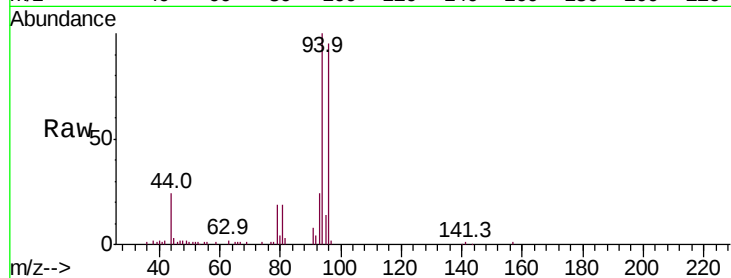
96 95.2 74.2 111.2

93 24.0 17.8 26.6

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#6

Chloroethane

Concen: 50.492 ug/l

RT: 2.27 min Scan# 86

Delta R.T. 0.01 min

Lab File: VD063168.D

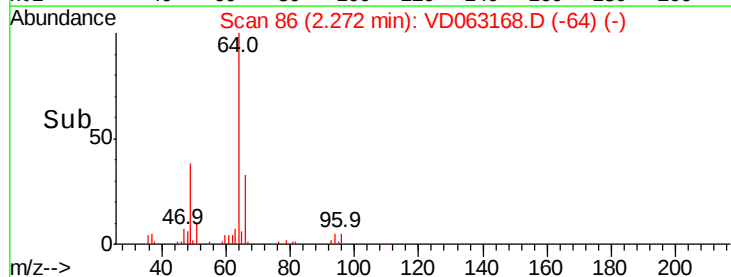
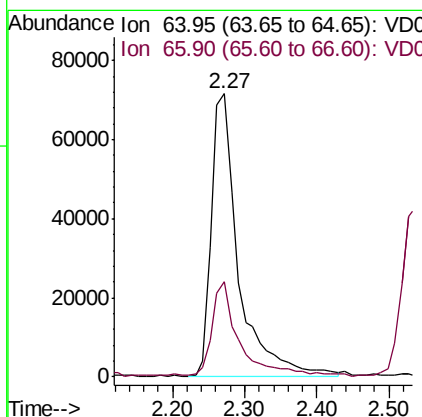
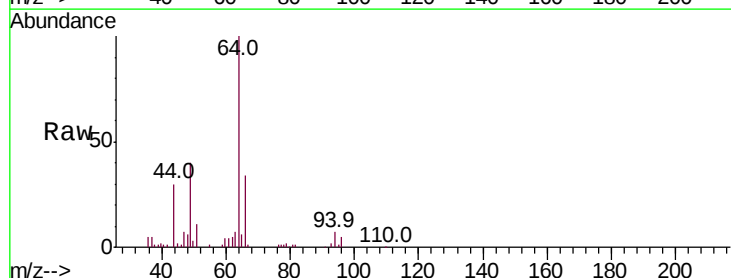
Acq: 22 Jul 2019 10:53

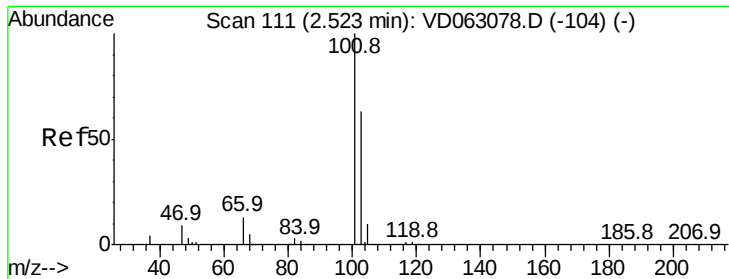
Tgt Ion: 64 Resp: 186391

Ion Ratio Lower Upper

64 100

66 33.8 22.5 33.7#





#7

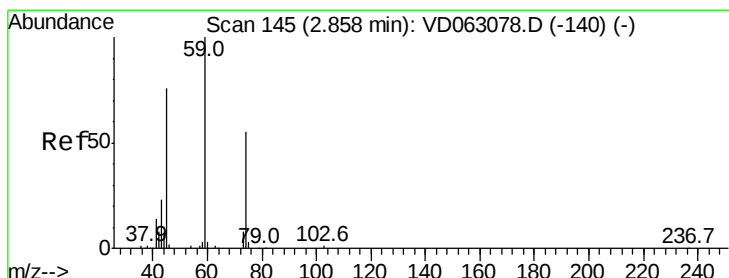
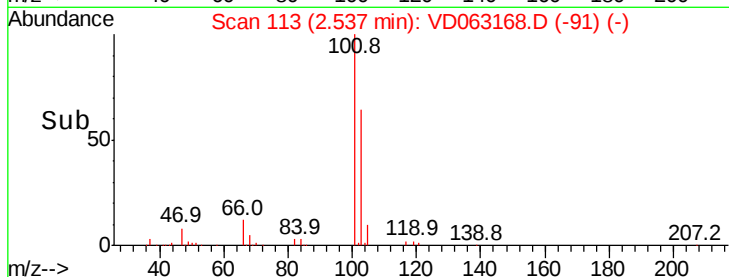
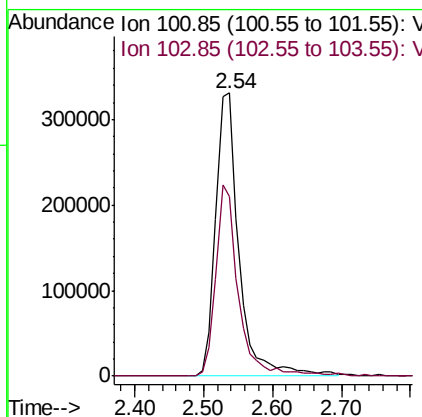
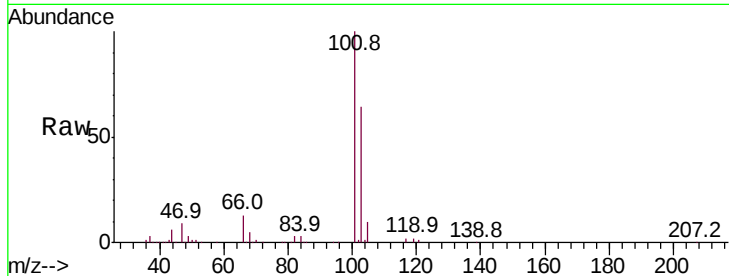
Trichlorofluoromethane
 Concen: 48.610 ug/l
 RT: 2.54 min Scan# 113
 Delta R.T. 0.01 min
 Lab File: VD063168.D
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Tot Ion	Ratio	Lower	Upper
101	100		
103	63.6	50.6	76.0

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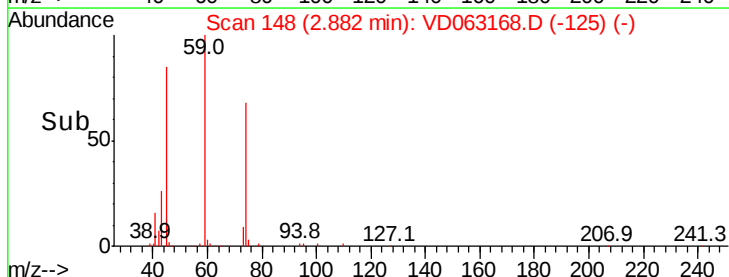
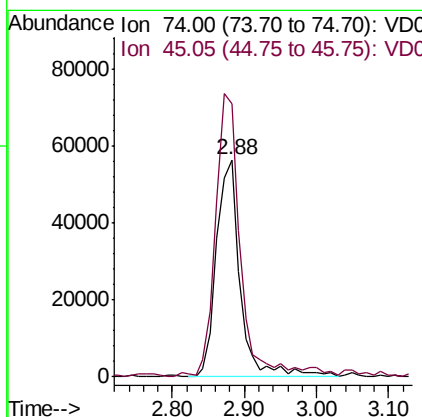
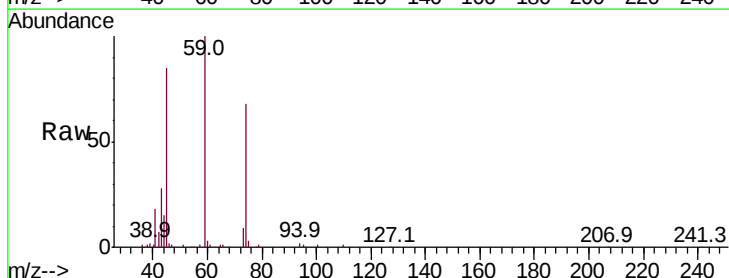
MMDadoda
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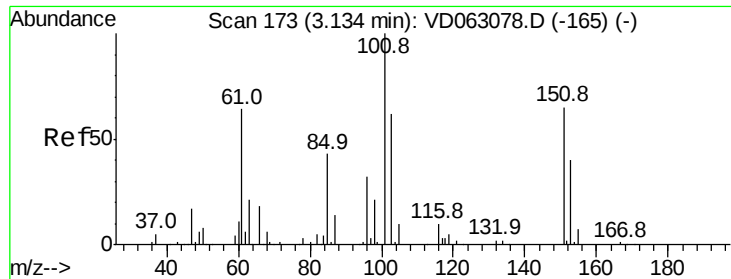


#8

Diethyl Ether
 Concen: 56.764 ug/l
 RT: 2.88 min Scan# 148
 Delta R.T. 0.02 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Tgt Ion	Ratio	Lower	Upper
74	100		
45	125.8	69.5	208.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.920 ug/l

RT: 3.15 min Scan# 175

Delta R.T. 0.01 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

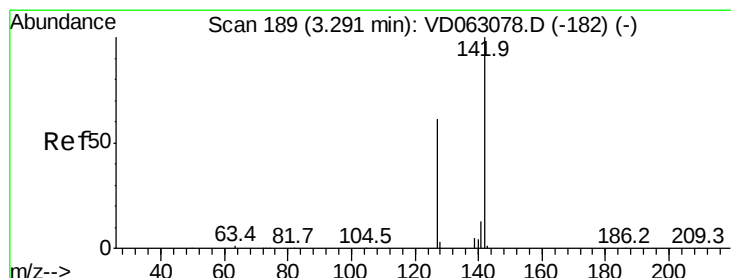
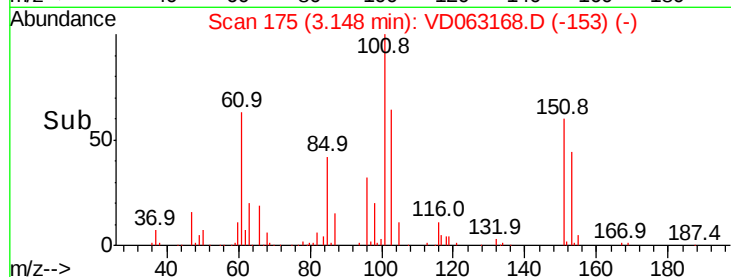
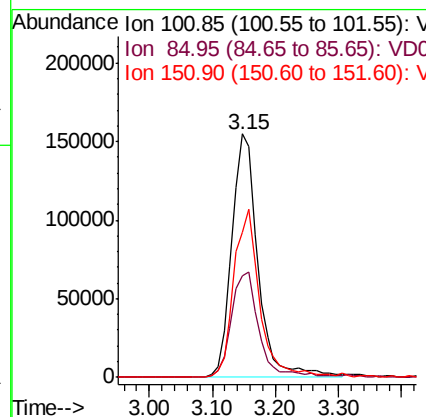
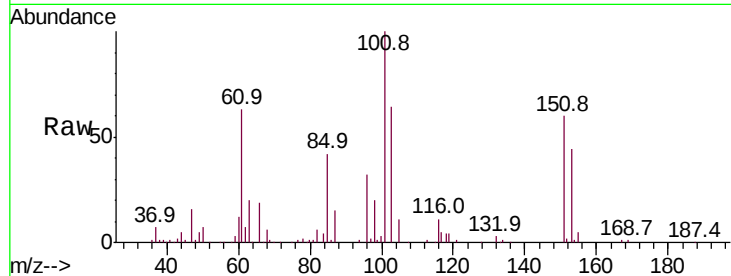
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	444516
Ion Ratio	Lower	Upper	
101	100		
85	41.9	34.6	51.8
151	59.7	52.4	78.6

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#10

Methyl Iodide

Concen: 50.176 ug/l

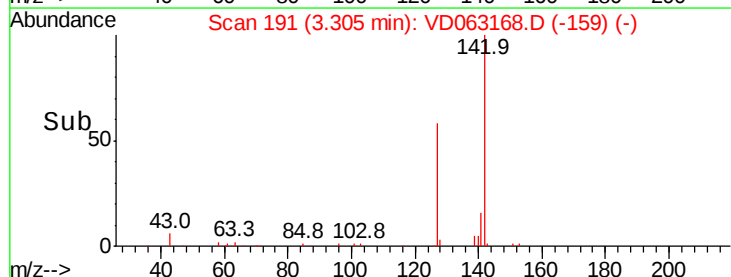
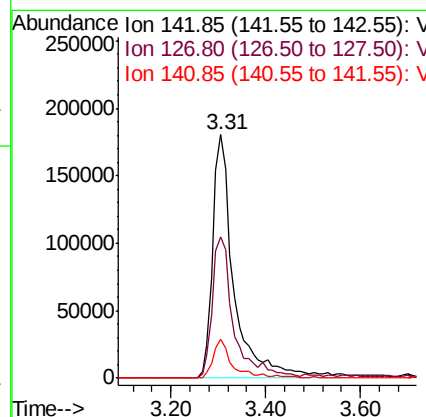
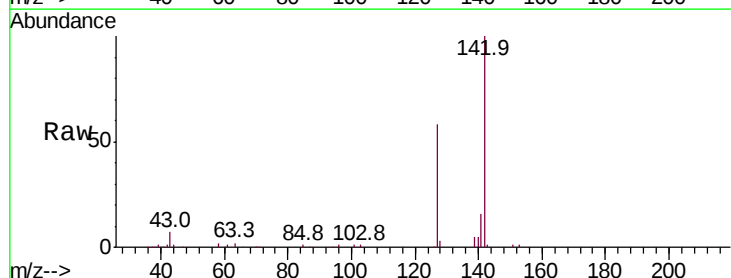
RT: 3.31 min Scan# 191

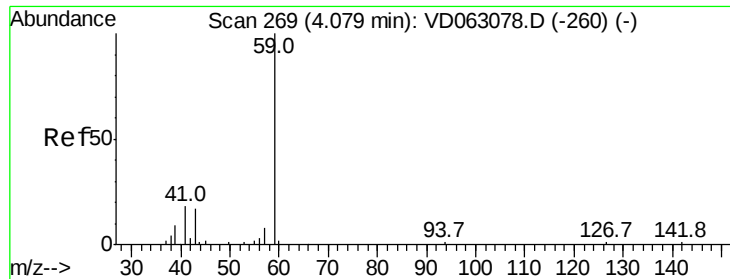
Delta R.T. 0.01 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Tgt Ion:	142	Resp:	571406
Ion Ratio	Lower	Upper	
142	100		
127	58.3	48.6	73.0
141	15.8	10.6	16.0





#11

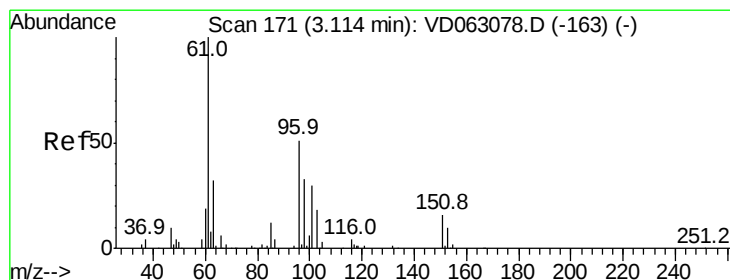
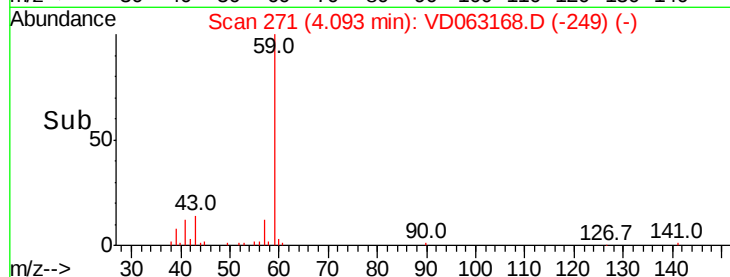
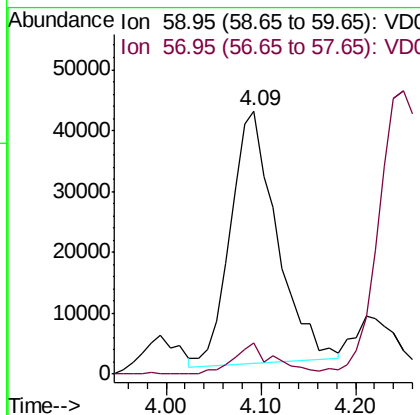
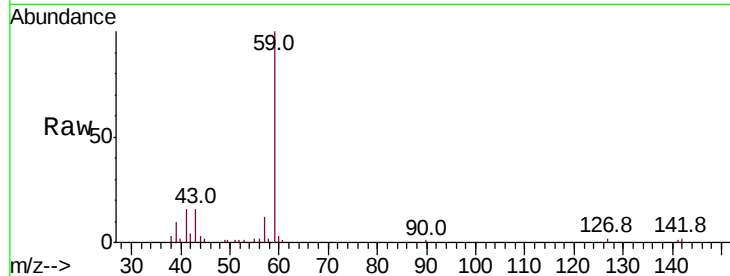
Tert butyl alcohol
Concen: 262.321 ug/l
RT: 4.09 min Scan# 271
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 59 Resp: 140418
Ion Ratio Lower Upper
59 100
57 11.7 6.4 9.6#

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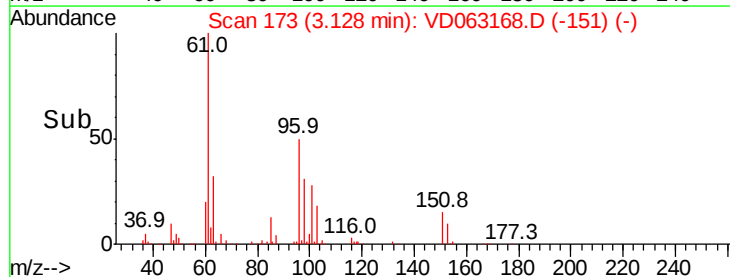
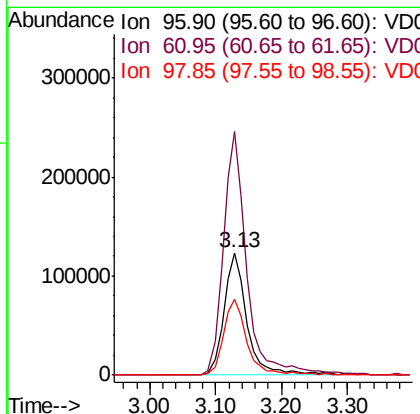
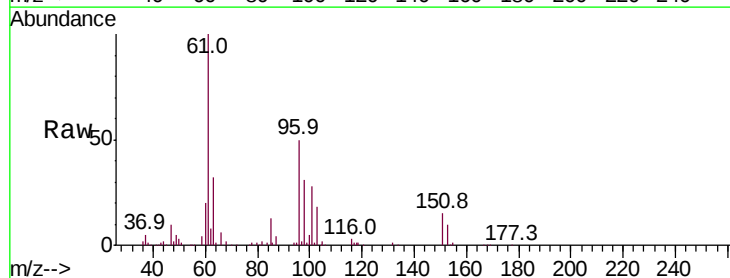
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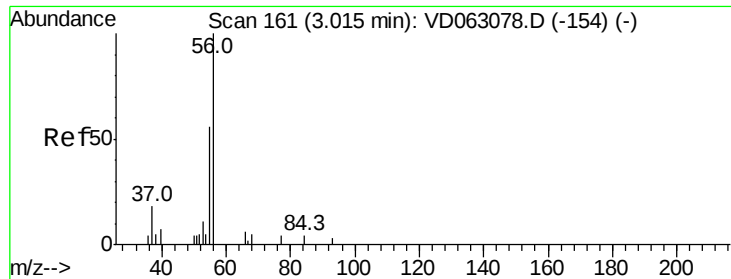


#12

1,1-Dichloroethene
Concen: 45.965 ug/l
RT: 3.13 min Scan# 173
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion: 96 Resp: 302776
Ion Ratio Lower Upper
96 100
61 198.9 155.5 233.3
98 62.1 51.5 77.3





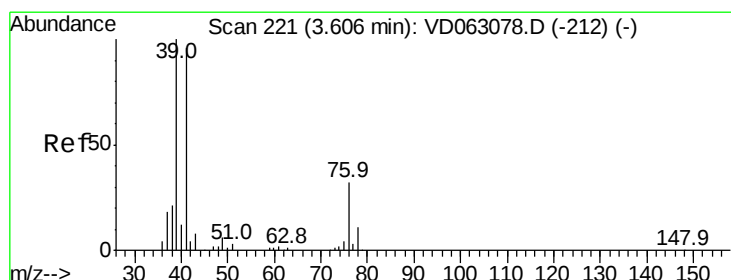
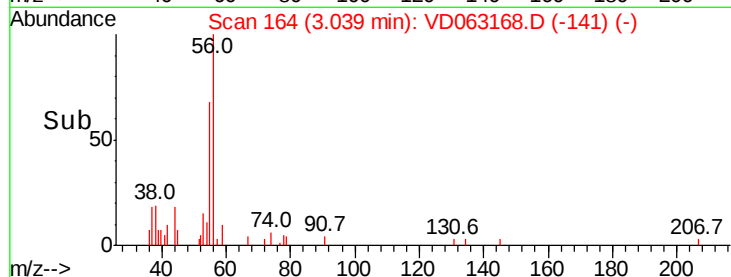
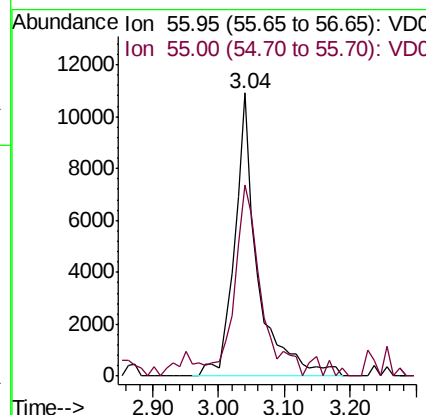
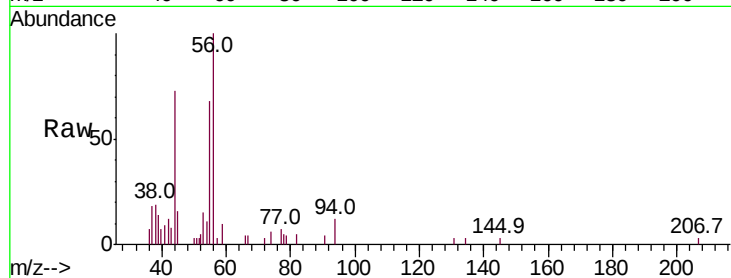
#13
Acrolein
Concen: 165.184 ug/l
RT: 3.04 min Scan# 164
Delta R.T. 0.02 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 56 Resp: 26687
Ion Ratio Lower Upper
56 100
55 67.6 53.0 79.4

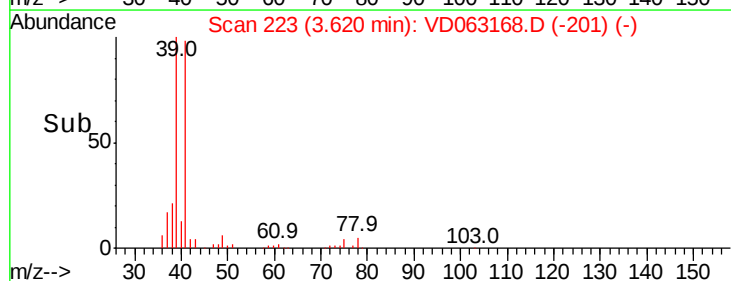
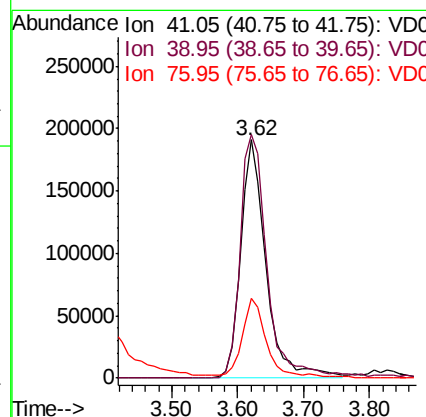
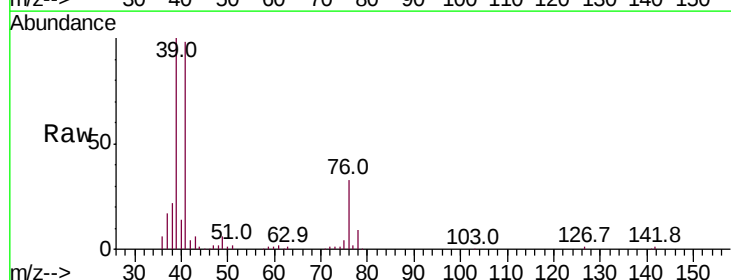
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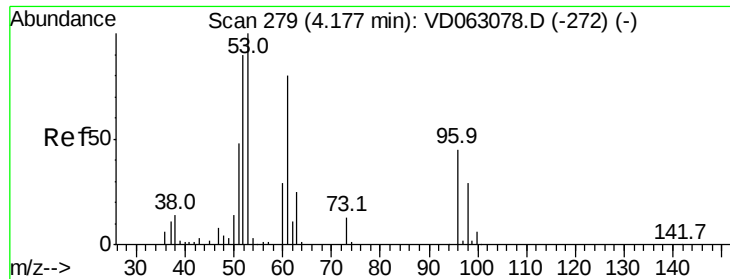
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#14
Allyl chloride
Concen: 49.729 ug/l
RT: 3.62 min Scan# 223
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion: 41 Resp: 514827
Ion Ratio Lower Upper
41 100
39 102.2 83.5 125.3
76 33.5 27.8 41.8





#15

Acrylonitrile

Concen: 275.274 ug/l

RT: 4.21 min Scan# 283

Delta R.T. 0.03 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 53 Resp: 325722

Ion Ratio Lower Upper

53 100

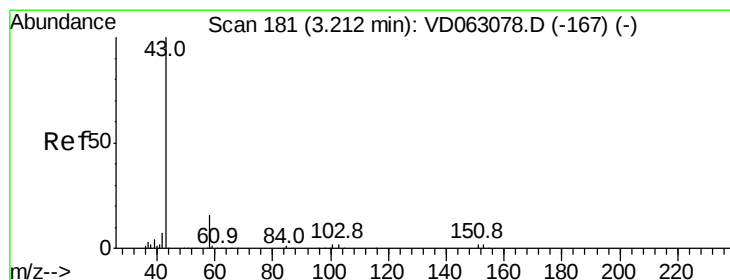
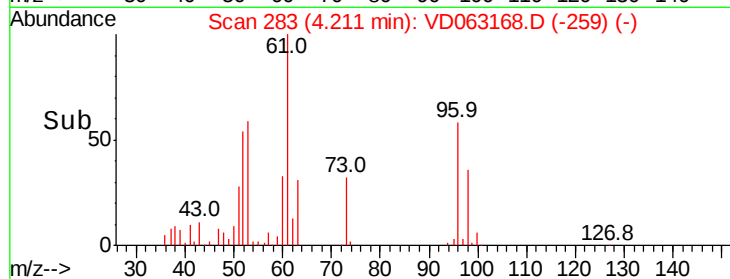
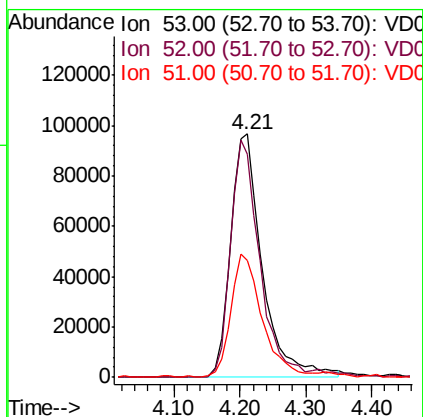
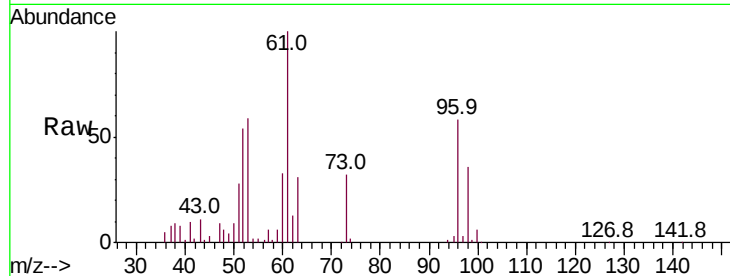
52 91.9 72.3 108.5

51 48.0 38.0 57.0

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#16

Acetone

Concen: 286.316 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD063168.D

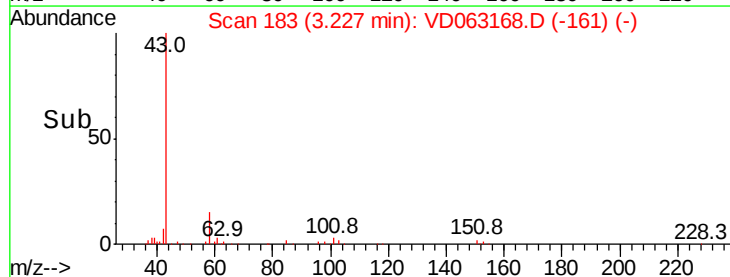
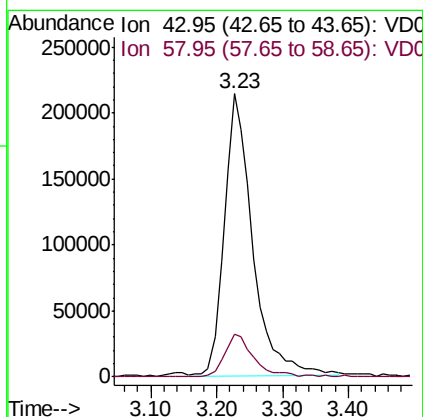
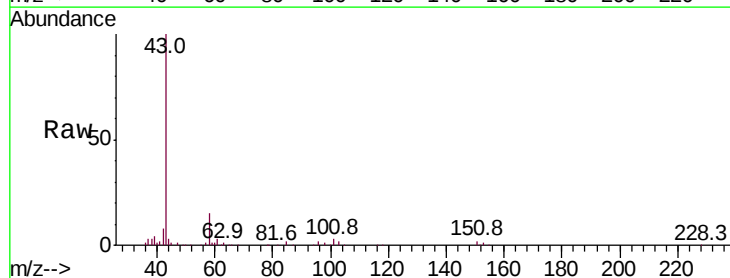
Acq: 22 Jul 2019 10:53

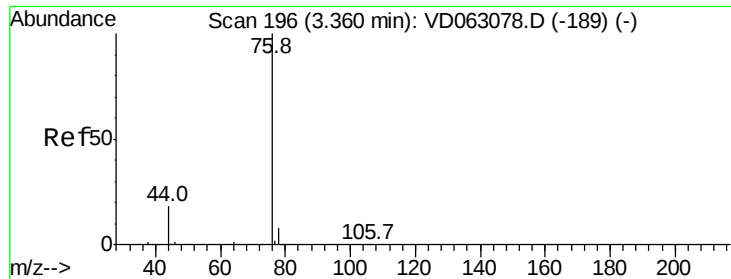
Tgt Ion: 43 Resp: 641423

Ion Ratio Lower Upper

43 100

58 15.0 13.0 19.4





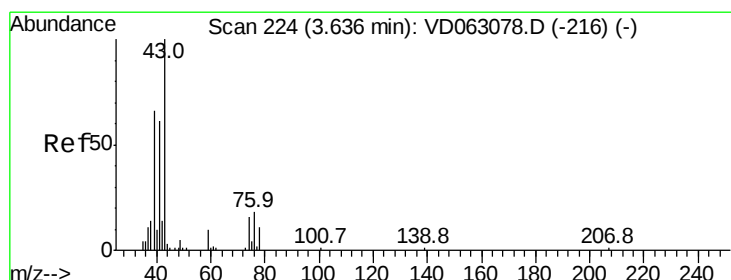
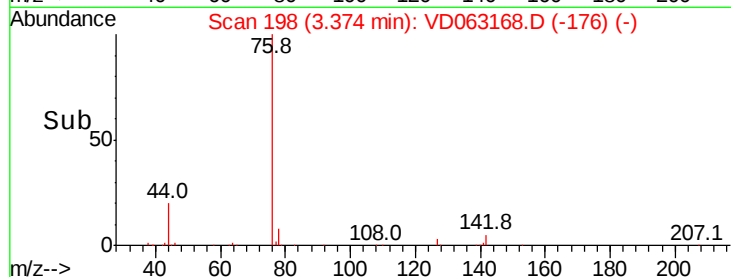
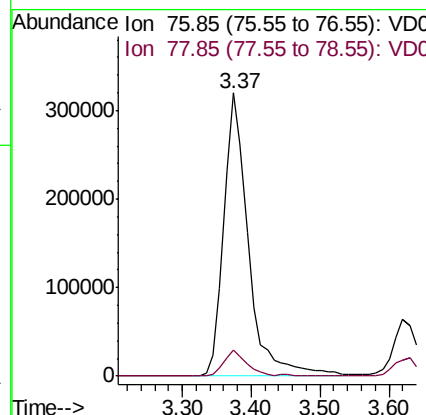
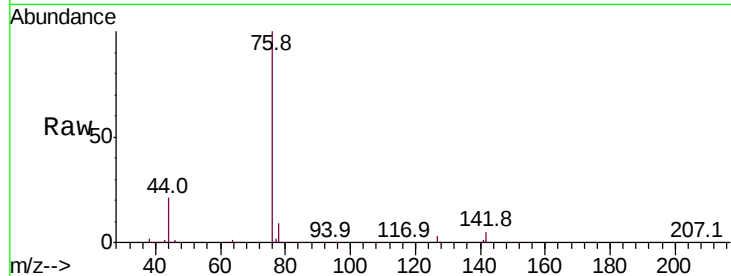
#17
Carbon Disulfide
Concen: 42.135 ug/l
RT: 3.37 min Scan# 198
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 794440
Ion Ratio Lower Upper
76 100
78 9.2 6.7 10.1

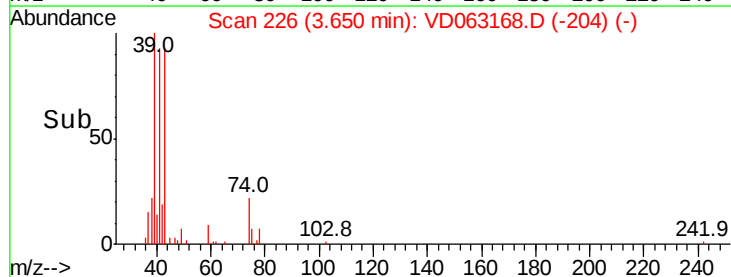
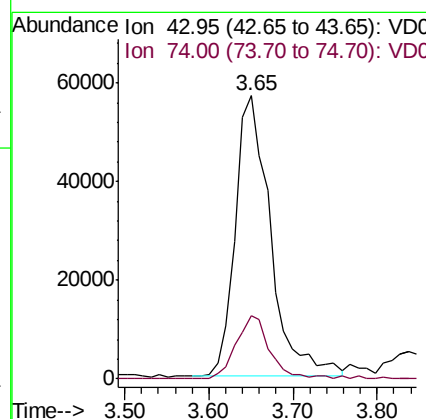
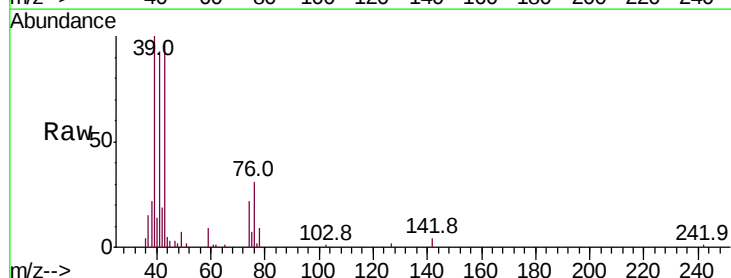
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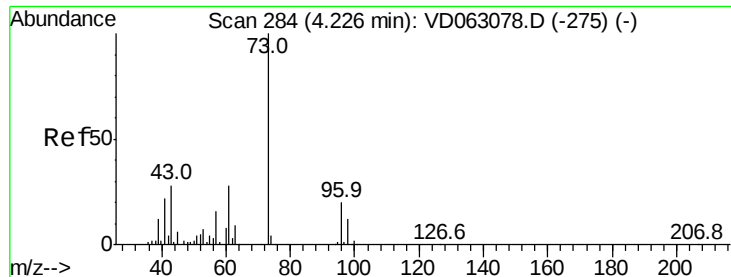
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#18
Methyl Acetate
Concen: 55.635 ug/l
RT: 3.65 min Scan# 226
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion: 43 Resp: 166559
Ion Ratio Lower Upper
43 100
74 22.3 12.5 18.7#





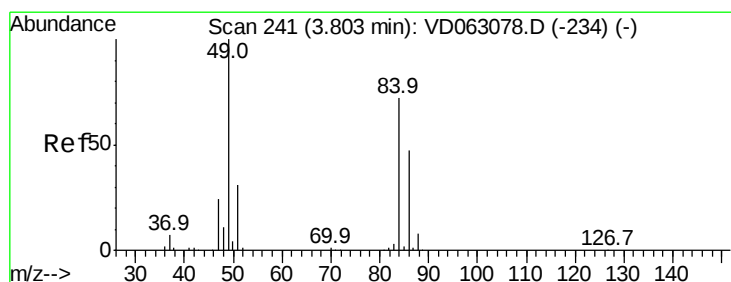
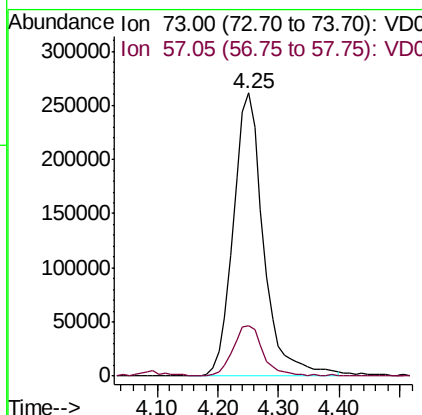
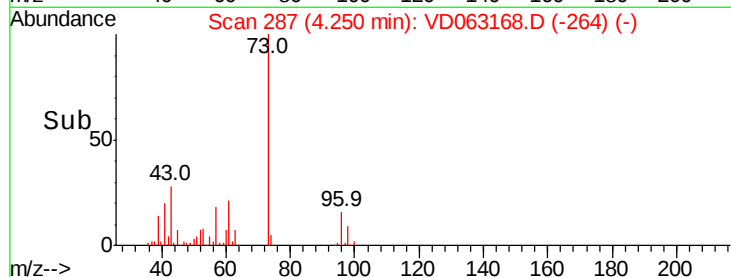
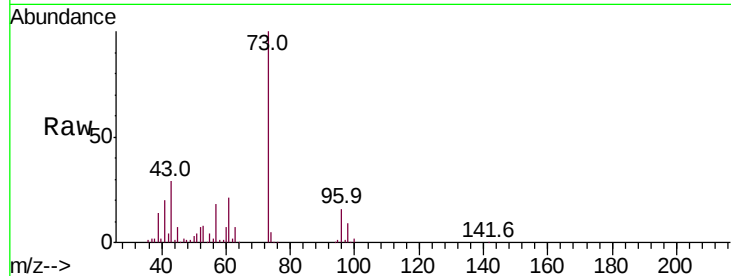
#19
Methvl tert-butvl Ether
Concen: 54.584 ug/l
RT: 4.25 min Scan# 287
Delta R.T. 0.02 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 907627
Ion Ratio Lower Upper
73 100
57 17.8 13.1 19.7

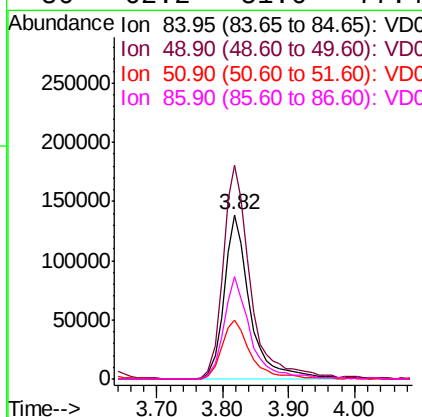
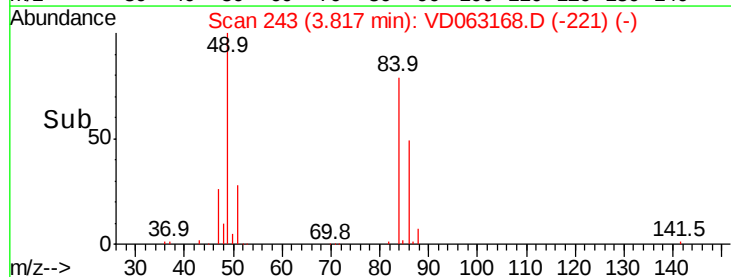
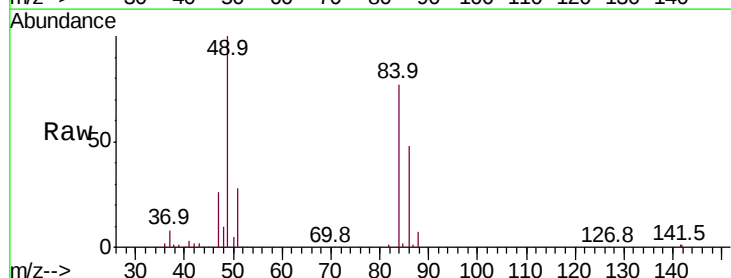
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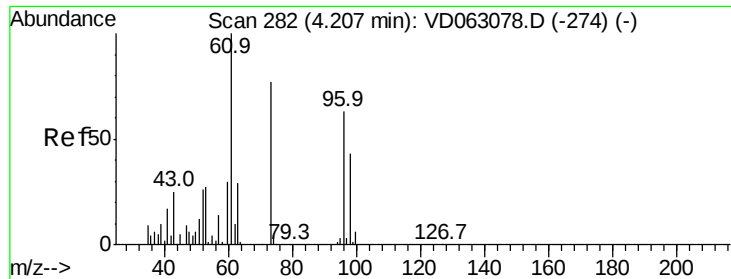
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#20
Methylene Chloride
Concen: 45.230 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion: 84 Resp: 382807
Ion Ratio Lower Upper
84 100
49 130.2 110.5 165.7
51 35.9 34.6 51.8
86 62.2 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 49.560 ug/l

RT: 4.22 min Scan# 284

Delta R.T. 0.01 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 362406

Ion Ratio Lower Upper

96 100

61 158.8 128.0 192.0

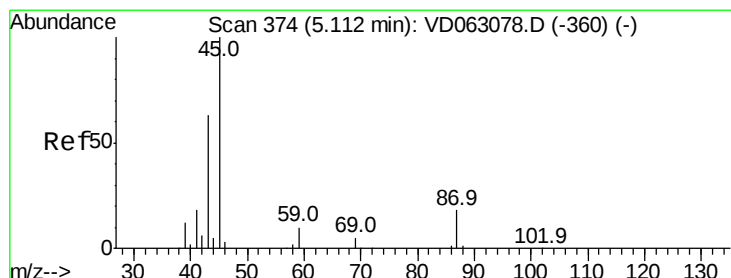
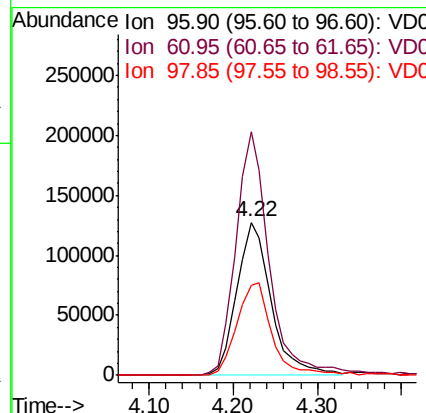
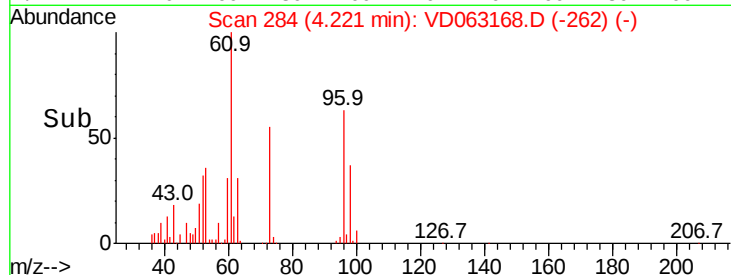
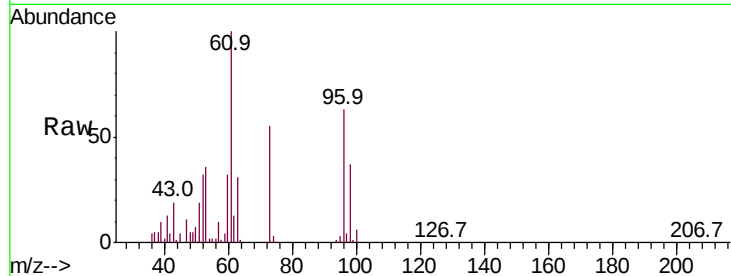
98 59.0 55.2 82.8

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#22

Diisopropyl ether

Concen: 53.472 ug/l

RT: 5.14 min Scan# 377

Delta R.T. 0.02 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Tgt Ion: 45 Resp: 1203590

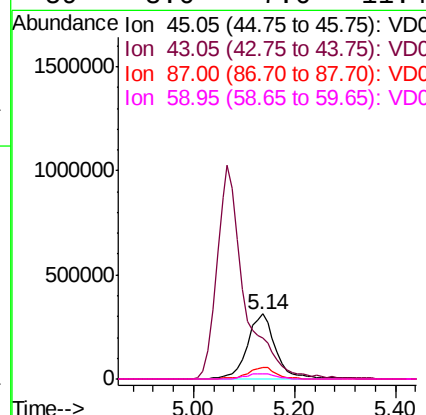
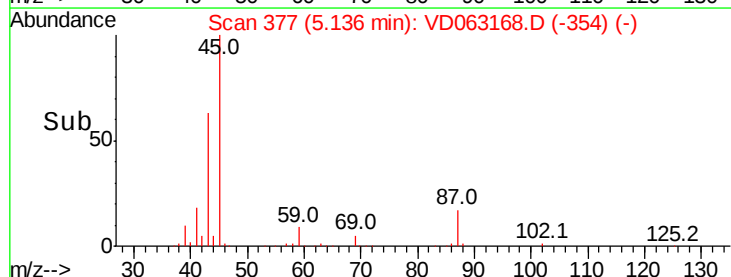
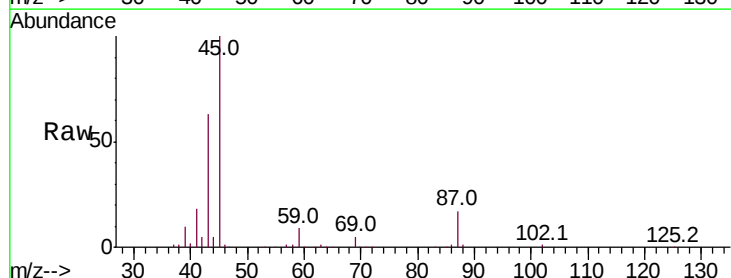
Ion Ratio Lower Upper

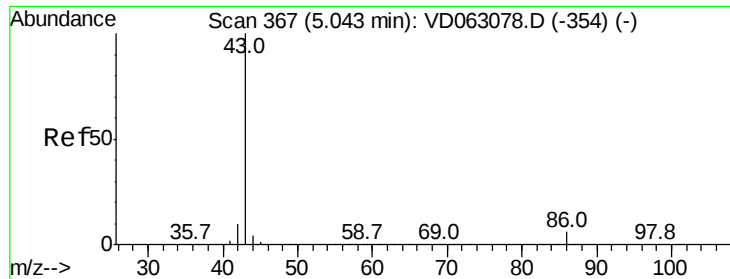
45 100

43 62.9 50.5 75.7

87 17.5 15.1 22.7

59 8.6 7.6 11.4





#23

Vinyl Acetate

Concen: 295.210 ug/l

RT: 5.07 min Scan# 370

Delta R.T. 0.02 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 3876669

Ion Ratio Lower Upper

43 100

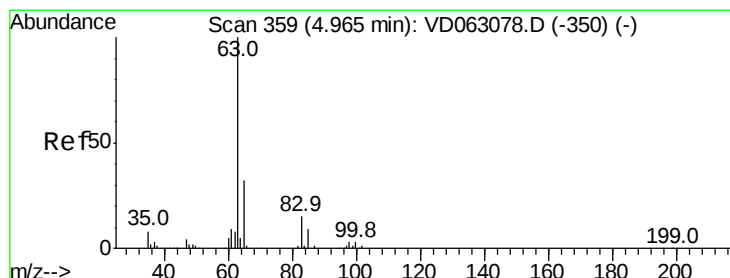
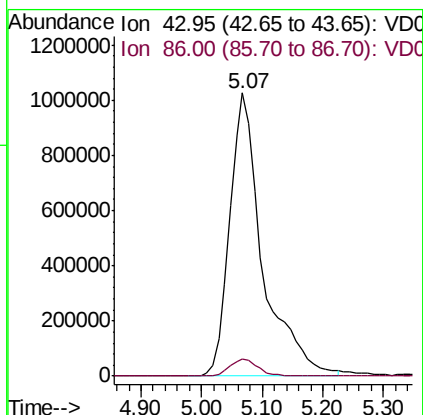
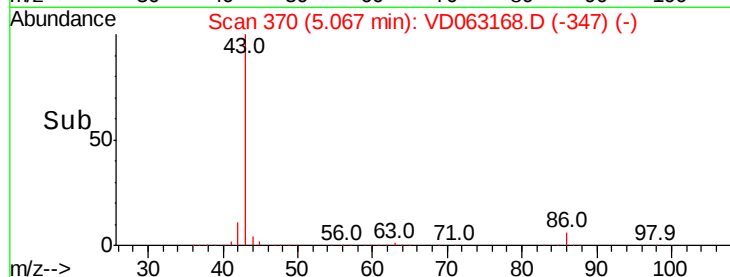
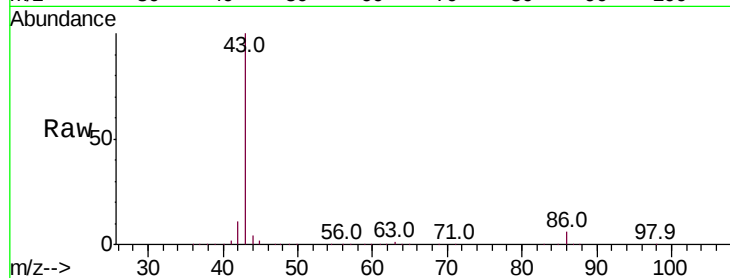
86 6.3 5.0 7.6

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#24

1,1-Dichloroethane

Concen: 51.840 ug/l

RT: 4.99 min Scan# 362

Delta R.T. 0.02 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

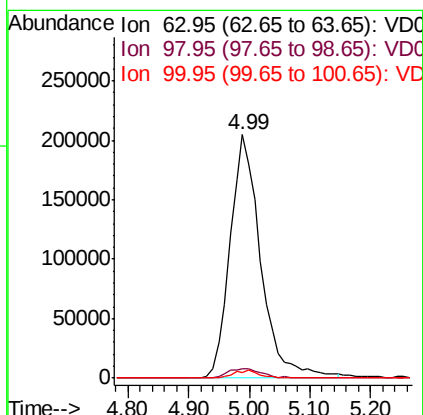
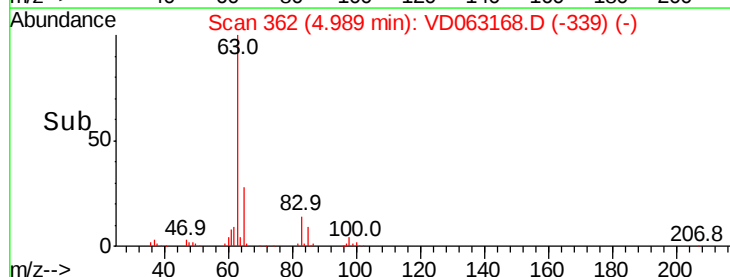
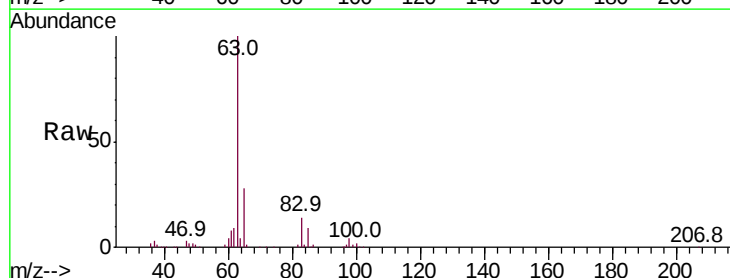
Tgt Ion: 63 Resp: 718762

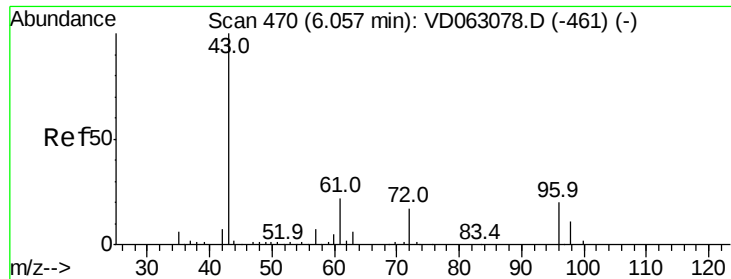
Ion Ratio Lower Upper

63 100

98 3.6 1.7 5.1

100 2.1 1.5 4.5





#25

2-Butanone

Concen: 291.337 ug/l

RT: 6.08 min Scan# 473

Delta R.T. 0.02 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 623248

Ion Ratio Lower Upper

43 100

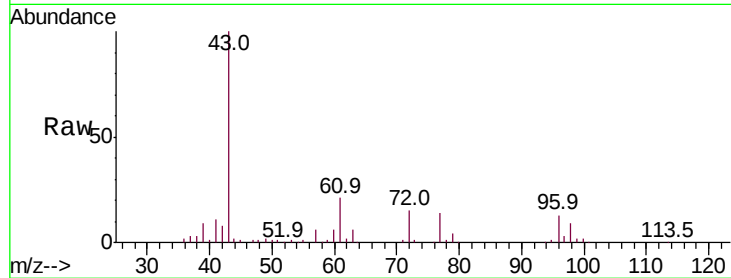
72 14.8 13.4 20.0

Manual Integrations

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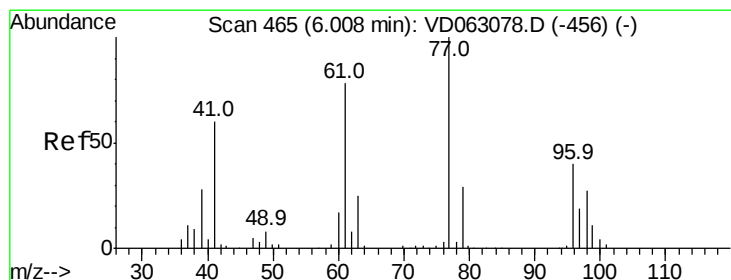
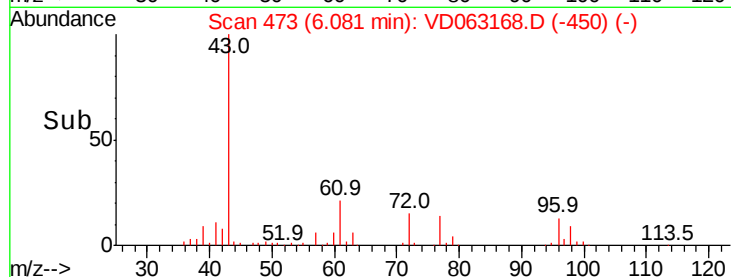
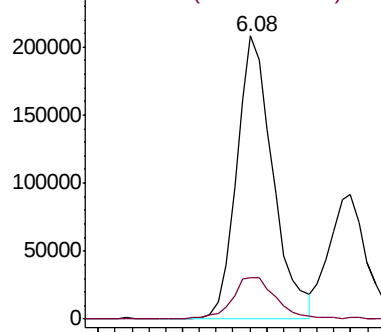
MMDadoda

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 50.469 ug/l

RT: 6.03 min Scan# 468

Delta R.T. 0.02 min

Lab File: VD063168.D

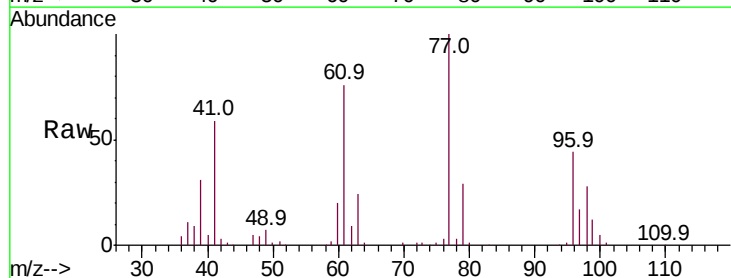
Acq: 22 Jul 2019 10:53

Tgt Ion: 77 Resp: 774439

Ion Ratio Lower Upper

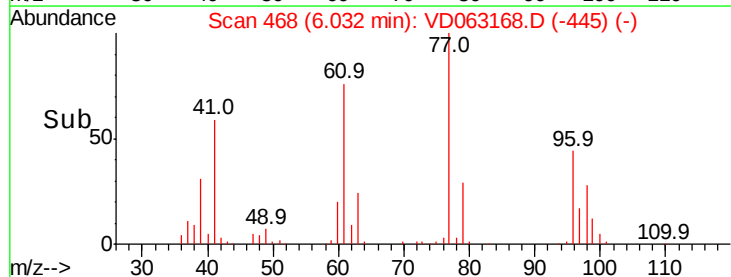
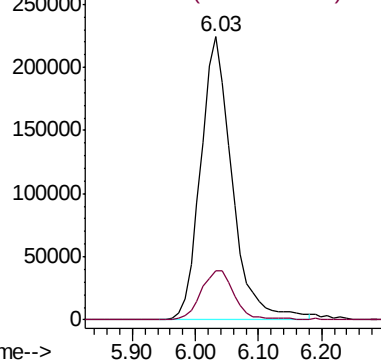
77 100

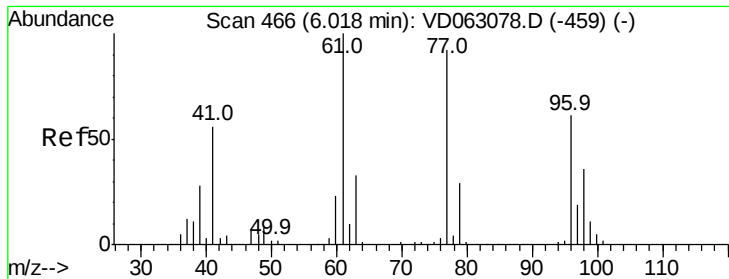
97 17.4 9.3 27.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





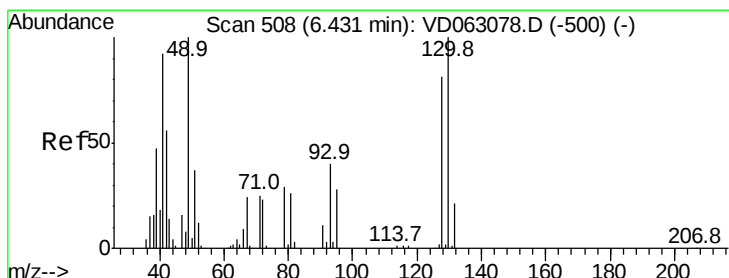
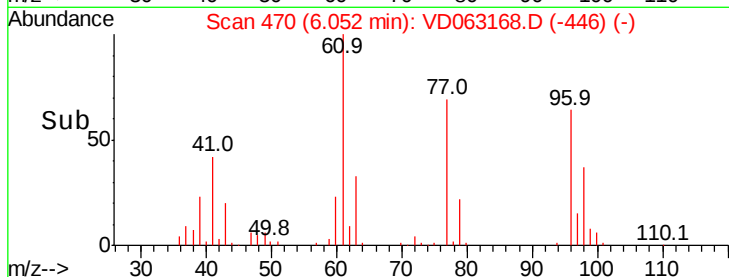
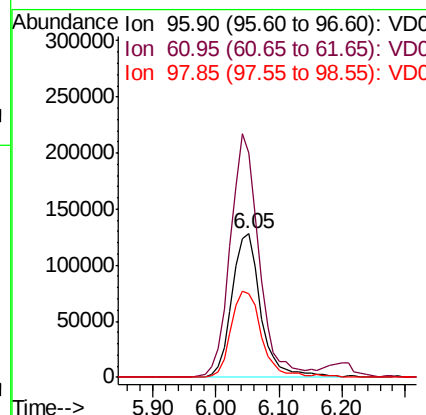
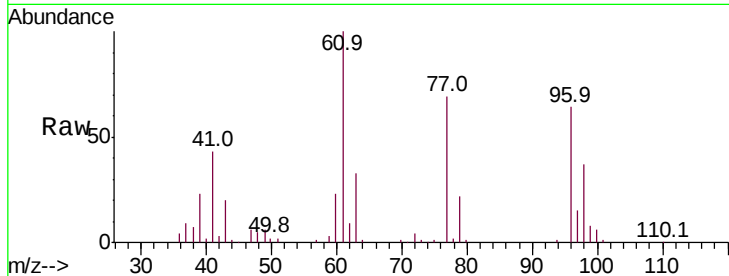
#27
 cis-1,2-Dichloroethene
 Concen: 48.806 ug/l
 RT: 6.05 min Scan# 470
 Delta R.T. 0.03 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	405985		
61	156.4	0.0	329.6	
98	58.6	0.0	118.4	

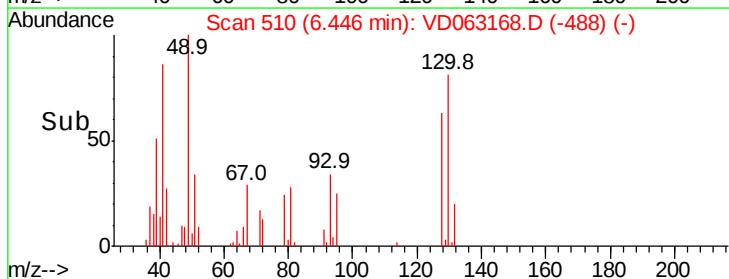
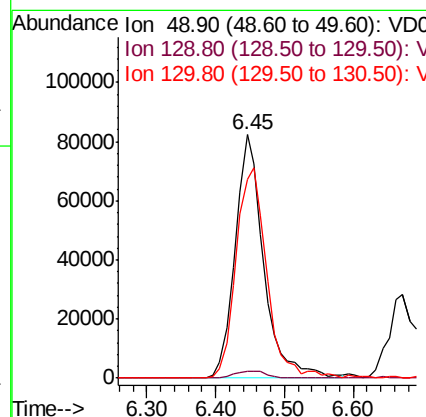
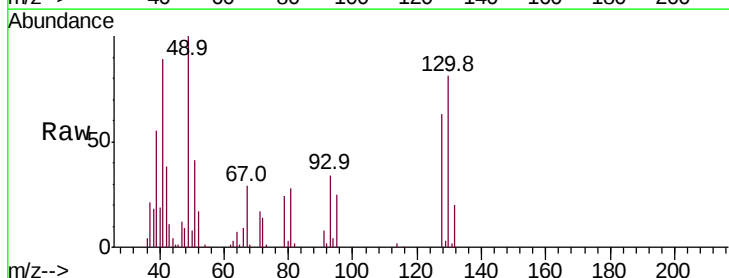
Manual Integrations
 APPROVED

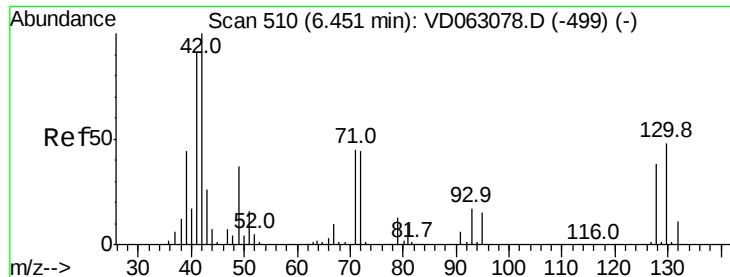
MMDadoda
 7/23/2019 10:40:12 AM



#28
 Bromochloromethane
 Concen: 47.075 ug/l
 RT: 6.45 min Scan# 510
 Delta R.T. 0.01 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	236797		
129	2.6	0.0	3.6	
130	81.4	80.3	120.5	





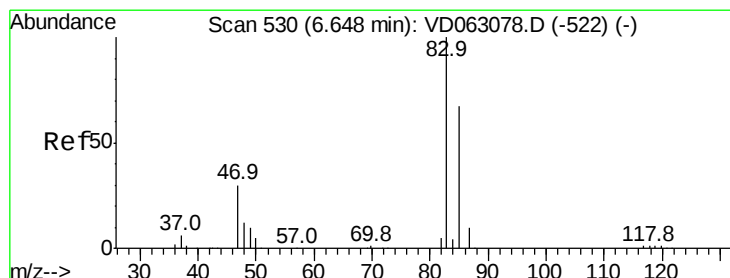
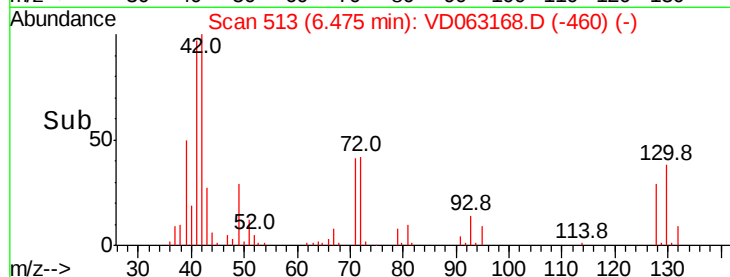
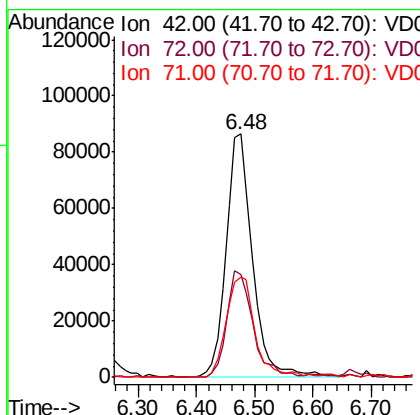
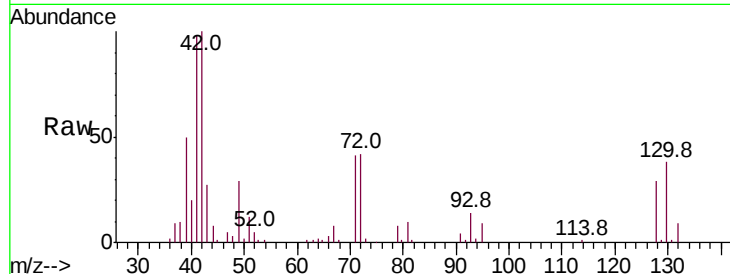
#29
Tetrahydrofuran
Concen: 279.881 ug/l
RT: 6.48 min Scan# 513
Delta R.T. 0.02 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.3	33.7	50.5
71	45.1	34.2	51.2

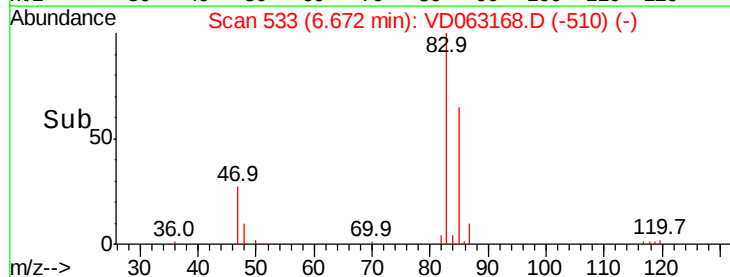
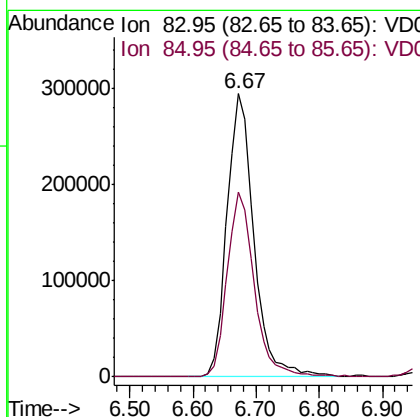
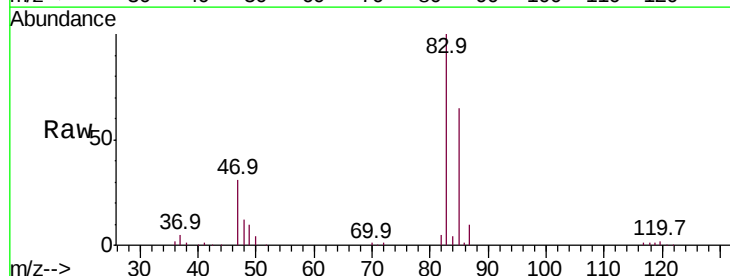
Manual Integrations
APPROVED

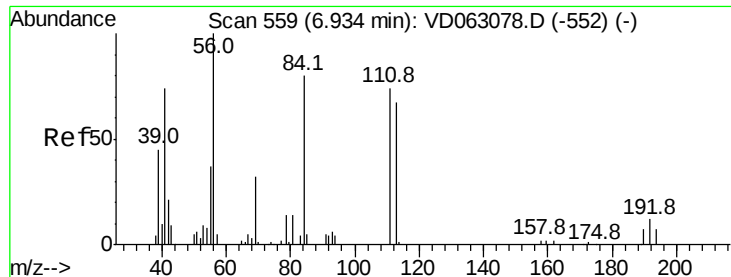
MMDadoda
7/23/2019 10:40:12 AM



#30
Chloroform
Concen: 50.913 ug/l
RT: 6.67 min Scan# 533
Delta R.T. 0.02 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.2	53.8	80.8





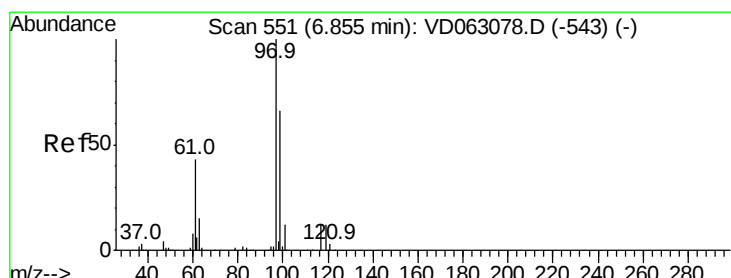
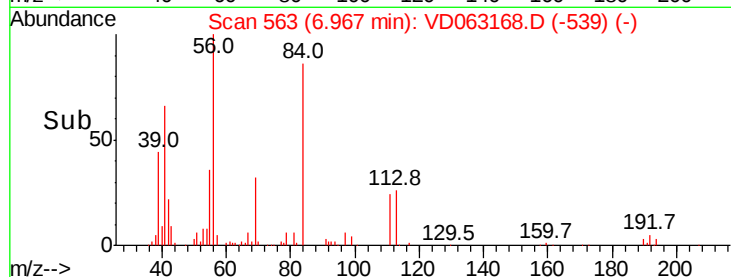
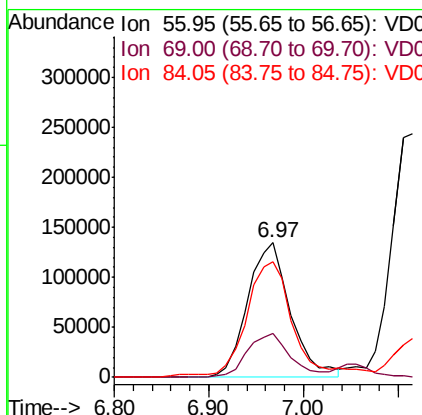
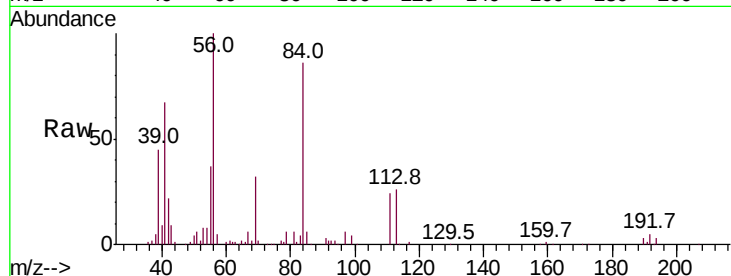
#31
Cyclohexane
Concen: 47.977 ug/l
RT: 6.97 min Scan# 563
Delta R.T. 0.03 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.4	25.3	37.9
84	86.1	64.2	96.4

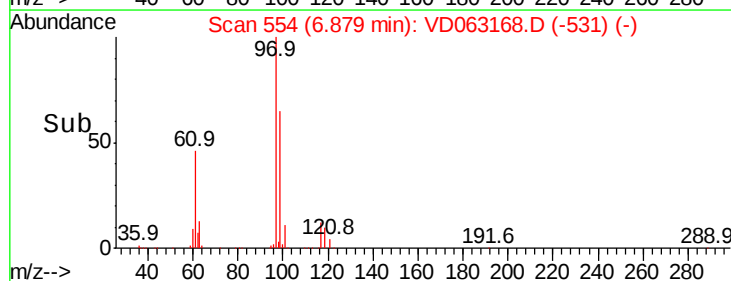
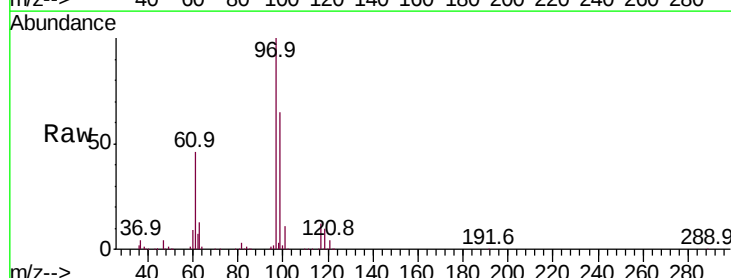
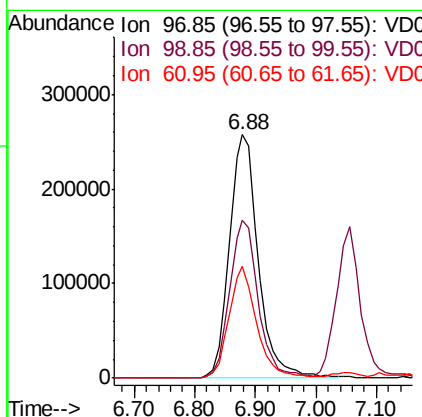
Manual Integrations
APPROVED

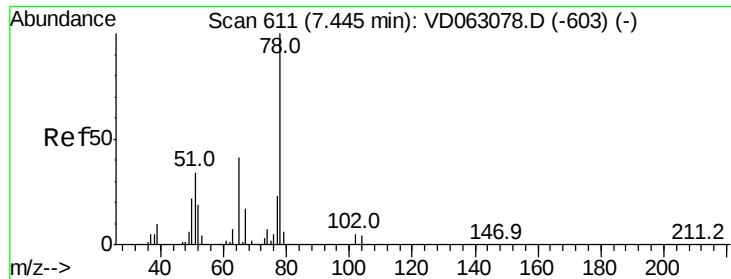
MMDadoda
7/23/2019 10:40:12 AM



#32
1,1,1-Trichloroethane
Concen: 50.566 ug/l
RT: 6.88 min Scan# 554
Delta R.T. 0.02 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.9	52.9	79.3
61	45.9	34.4	51.6





#33

1,2-Dichloroethane-d4

Concen: 45.591 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.01 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 422869

Ion Ratio Lower Upper

65 100

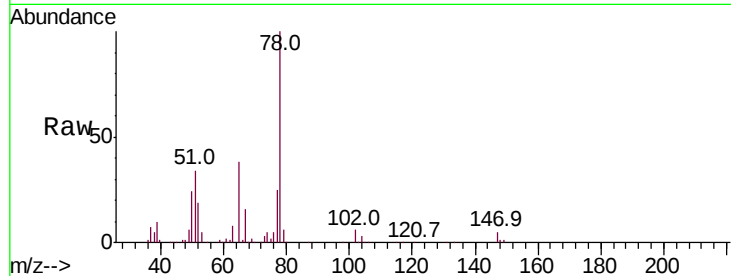
67 42.9 0.0 86.0

Manual Integrations

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7/23/2019 10:40:12 AM



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.46

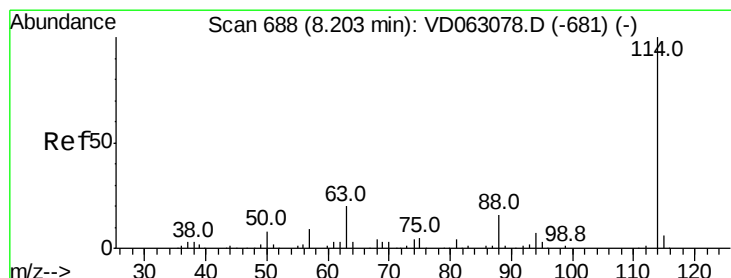
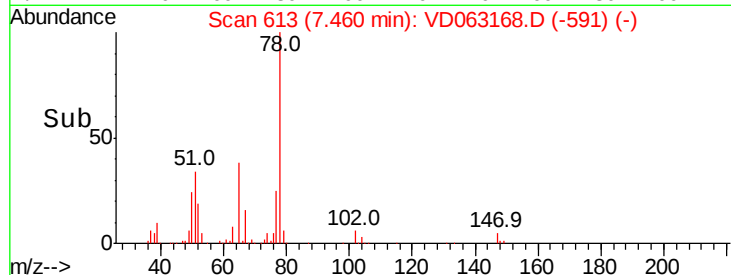
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 691

Delta R.T. 0.02 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

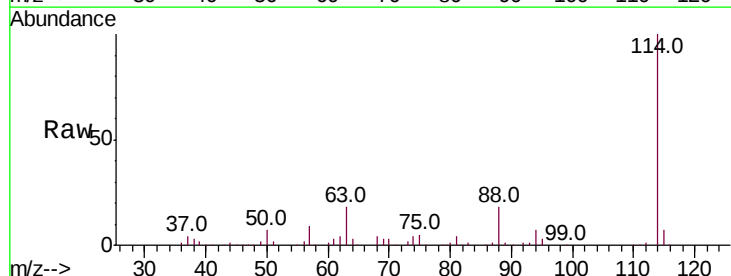
Tgt Ion: 114 Resp: 993684

Ion Ratio Lower Upper

114 100

63 17.6 0.0 40.6

88 18.0 0.0 32.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

500000

400000

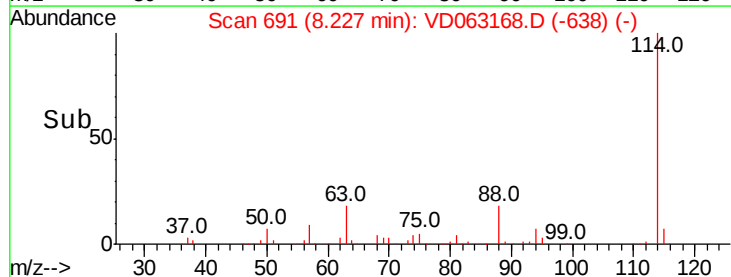
300000

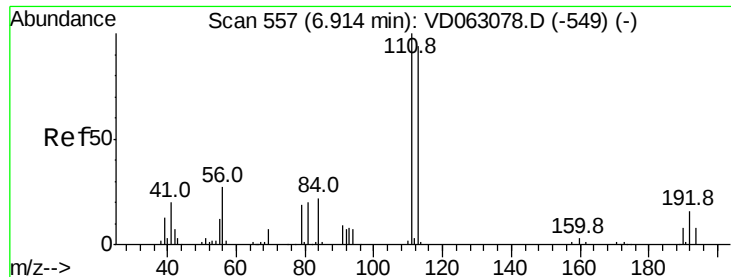
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 48.919 ug/l

RT: 6.94 min Scan# 560

Delta R.T. 0.02 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

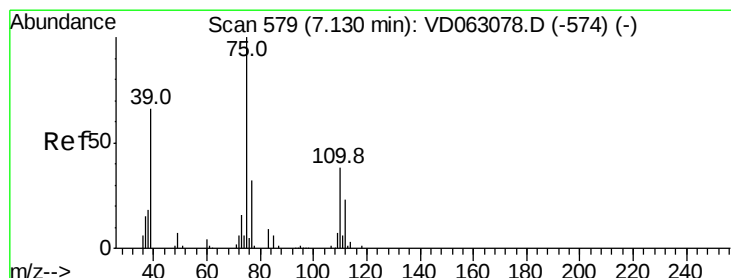
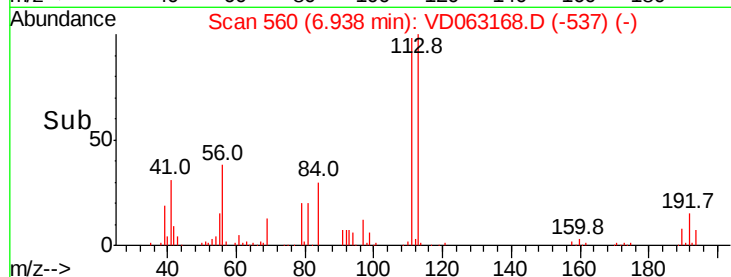
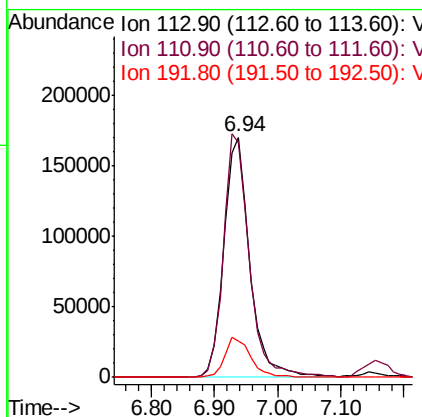
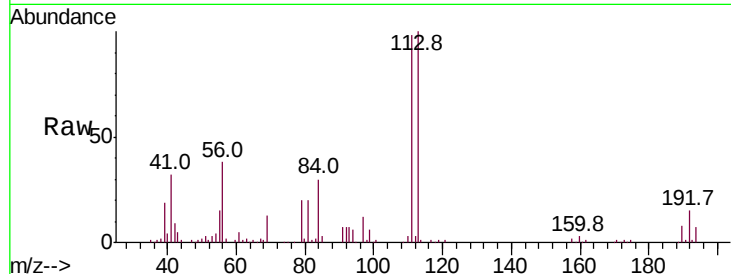
ClientSampleId :

VSTDCCC050

Tot Ion:	113	Resp:	484171
Ion Ratio	Lower	Upper	
113	100		
111	97.9	84.8	127.2
192	15.3	13.4	20.0

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 48.229 ug/l

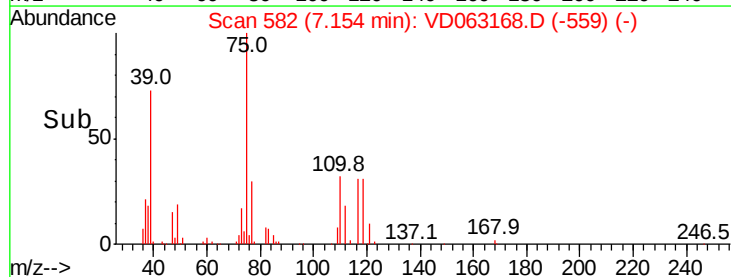
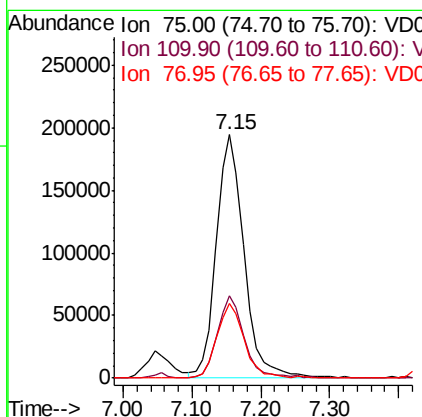
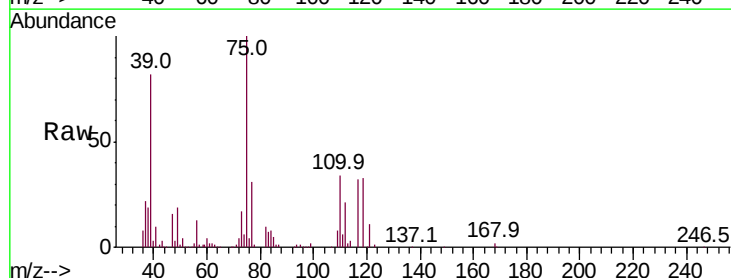
RT: 7.15 min Scan# 582

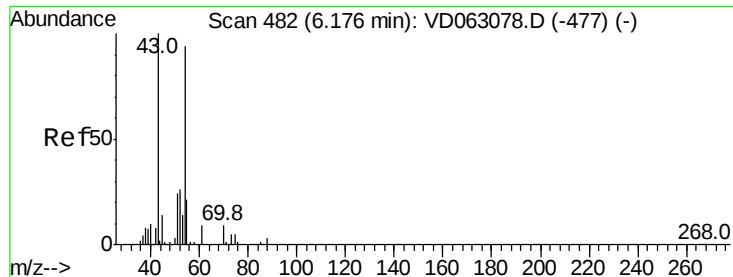
Delta R.T. 0.02 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Tgt Ion:	75	Resp:	538995
Ion Ratio	Lower	Upper	
75	100		
110	33.7	18.9	56.5
77	30.6	25.2	37.8





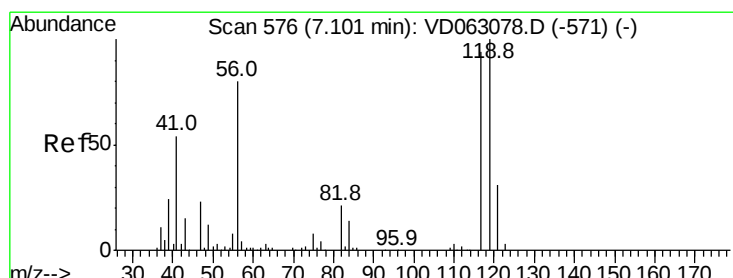
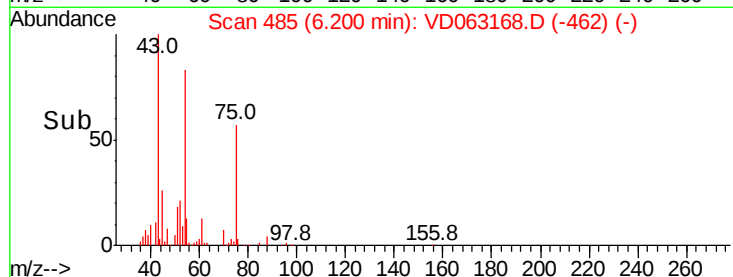
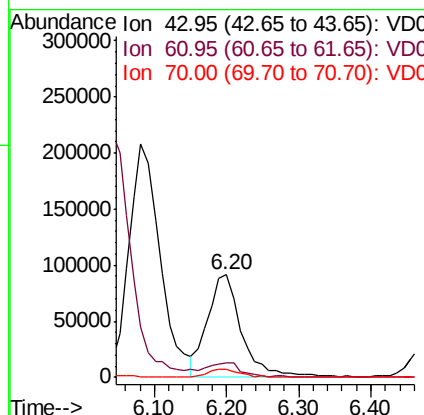
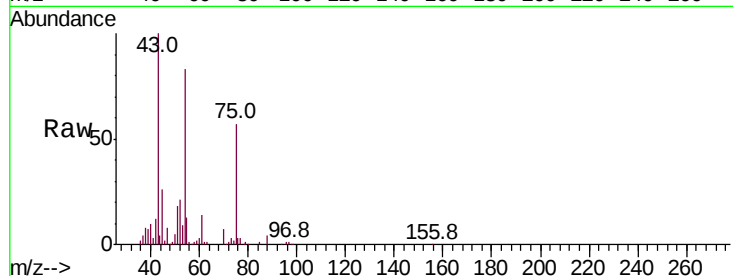
#37
Ethyl Acetate
Concen: 60.971 ug/l
RT: 6.20 min Scan# 485
Delta R.T. 0.02 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.7	10.6	16.0
70	7.4	6.6	9.8

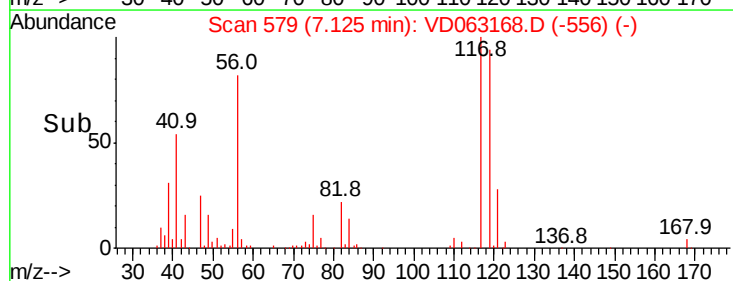
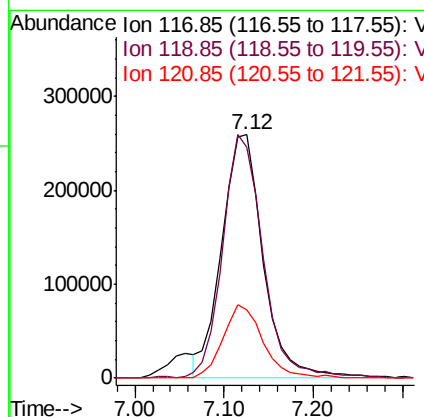
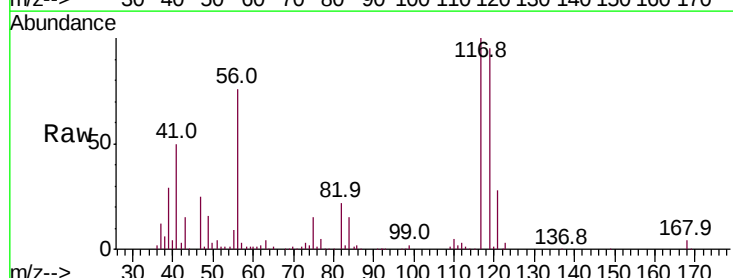
Manual Integrations
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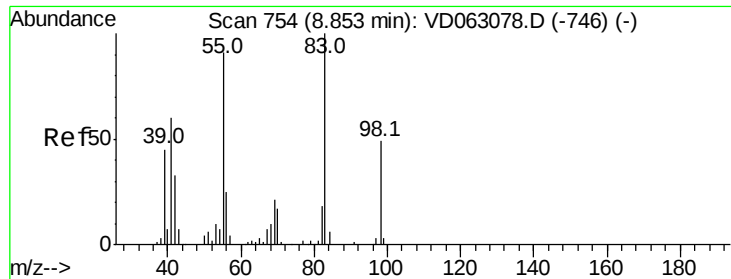
MMDadoda
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#38
Carbon Tetrachloride
Concen: 49.120 ug/l m
RT: 7.12 min Scan# 579
Delta R.T. 0.02 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.9	80.0	120.0
121	28.1	25.0	37.4





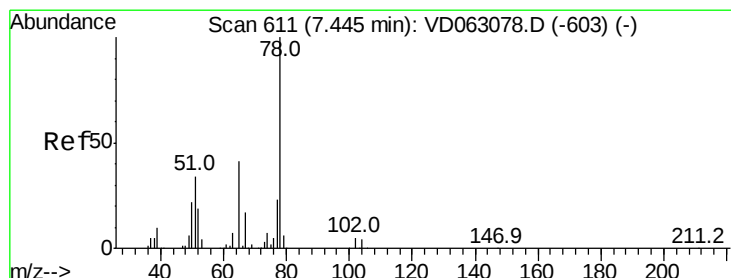
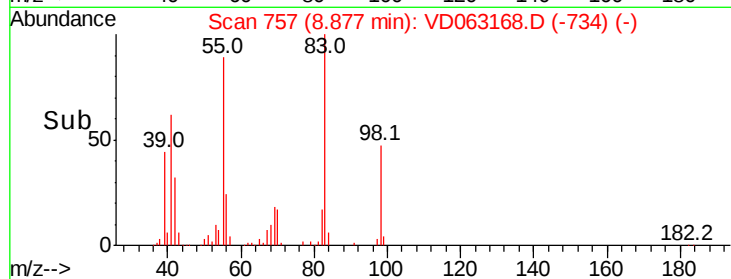
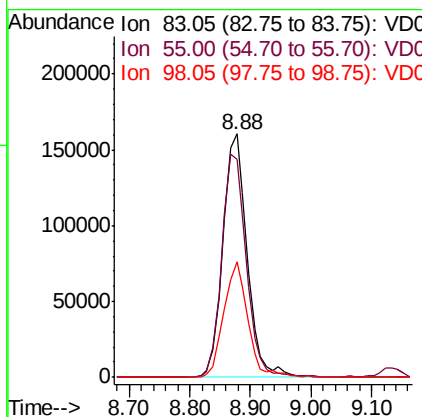
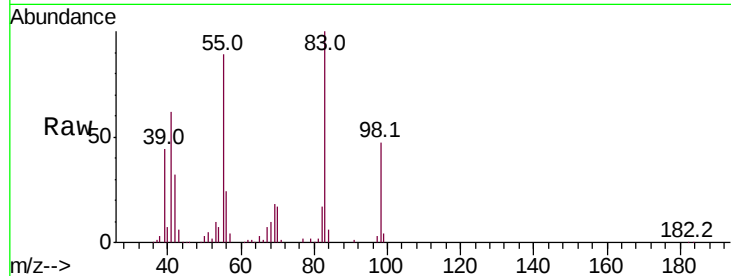
#39
Methvlcvclohexane
Concen: 46.371 ug/l
RT: 8.88 min Scan# 757
Delta R.T. 0.02 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	83	Resp	448036
Ion Ratio	100	Lower	Upper
83	100		
55	89.4	73.0	109.4
98	47.4	39.4	59.0

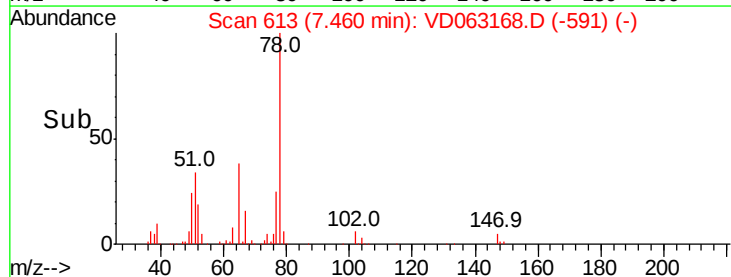
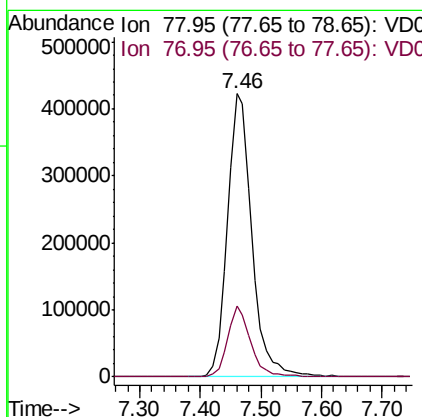
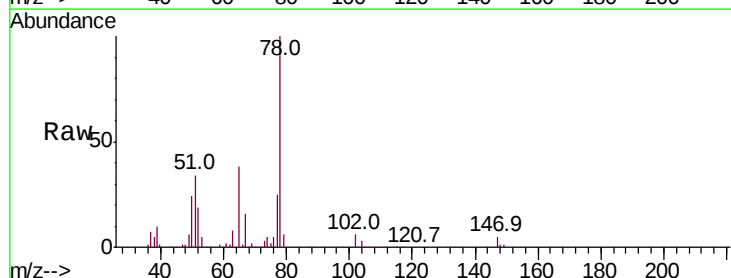
Manual Integrations
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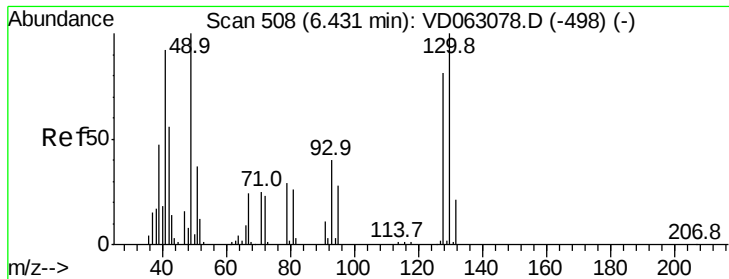
MMDadoda
7/23/2019 10:40:12 AM



#40
Benzene
Concen: 50.527 ug/l
RT: 7.46 min Scan# 613
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion	78	Resp	1182658
Ion Ratio	100	Lower	Upper
78	100		
77	24.9	18.1	27.1





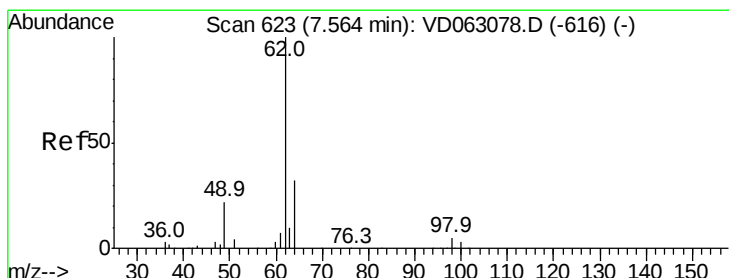
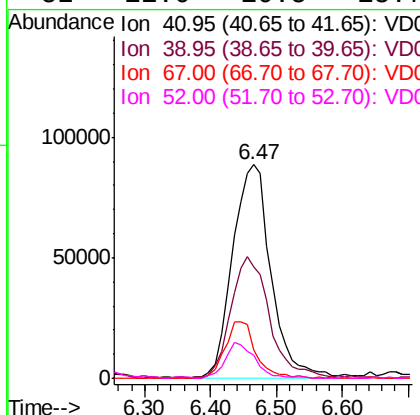
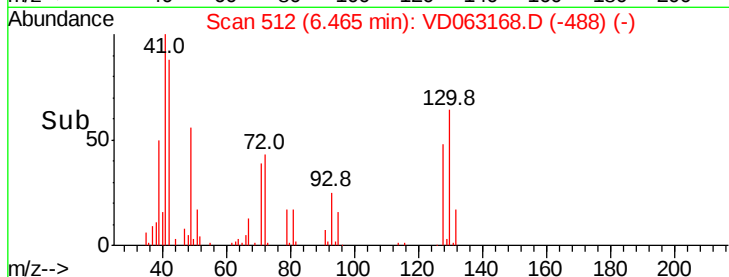
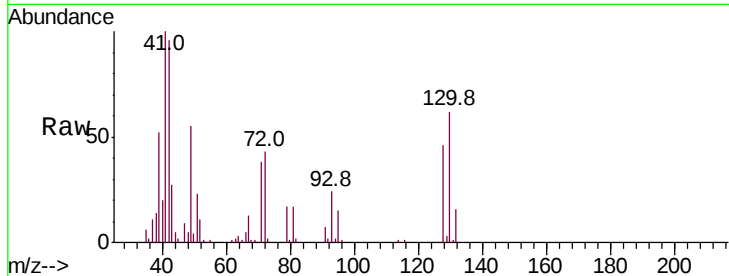
#41
Methacrylonitrile
Concen: 55.881 ug/l
RT: 6.47 min Scan# 512
Delta R.T. 0.03 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	52.2	41.0	61.6
67	13.0	21.3	31.9#
52	11.0	10.5	15.7

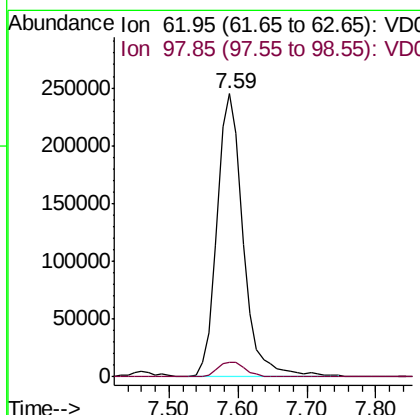
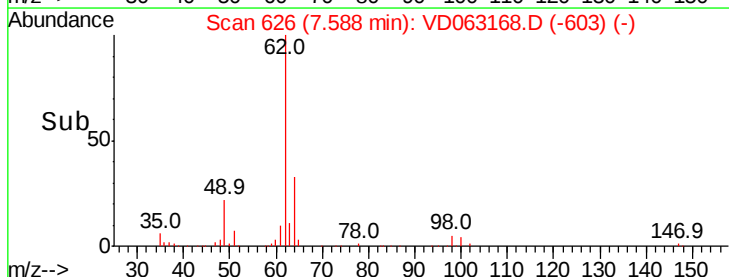
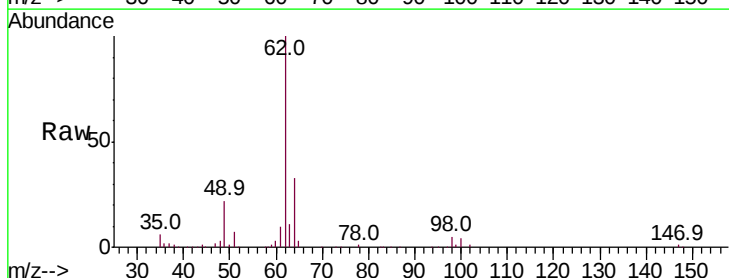
Manual Integrations
APPROVED

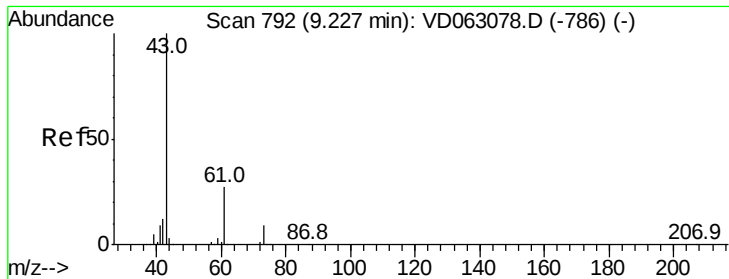
MMDadoda
7/23/2019 10:40:12 AM



#42
1,2-Dichloroethane
Concen: 51.810 ug/l
RT: 7.59 min Scan# 626
Delta R.T. 0.02 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion	Ratio	Lower	Upper
62	100		
98	5.1	0.0	9.6





#43

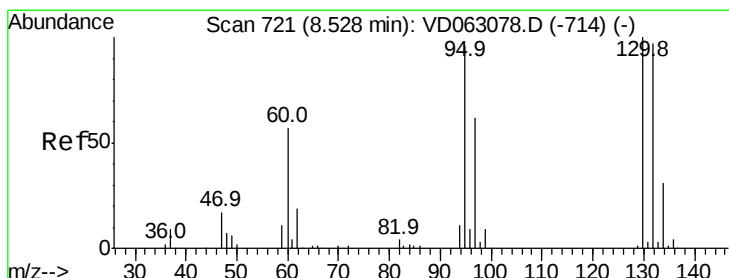
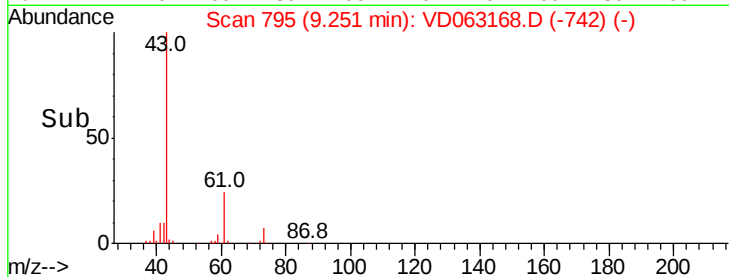
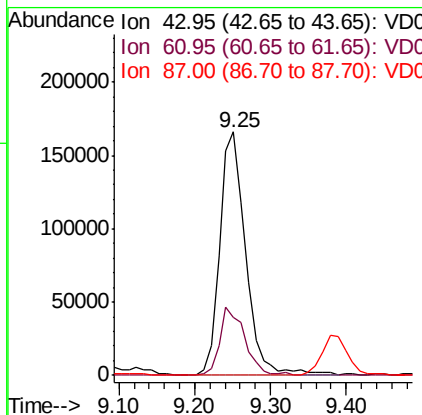
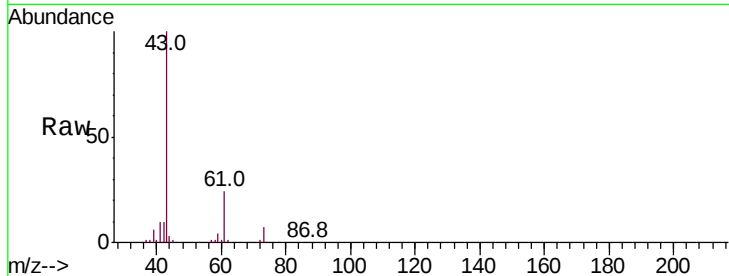
Isopropyl Acetate
 Concen: 57.577 ug/l
 RT: 9.25 min Scan# 795
 Delta R.T. 0.02 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	23.7	21.7	32.5
87	0.3	0.2	0.4

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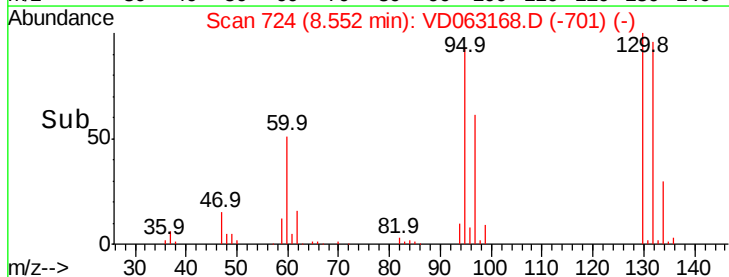
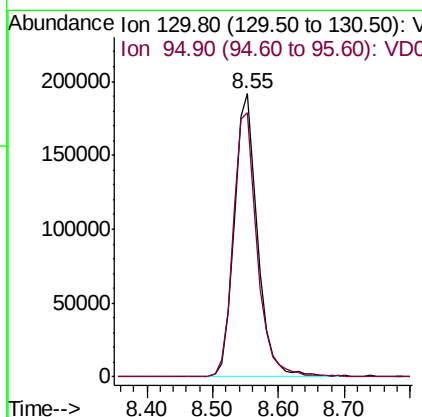
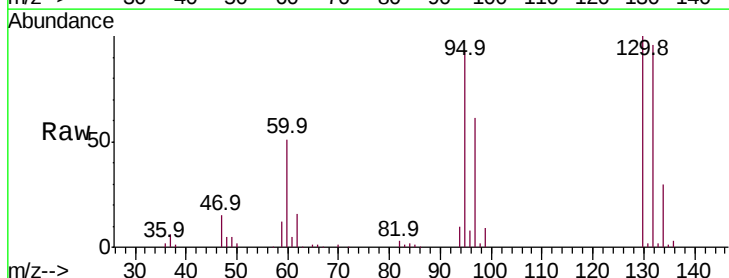
MMDadoda
 7/23/2019 10:40:12 AM

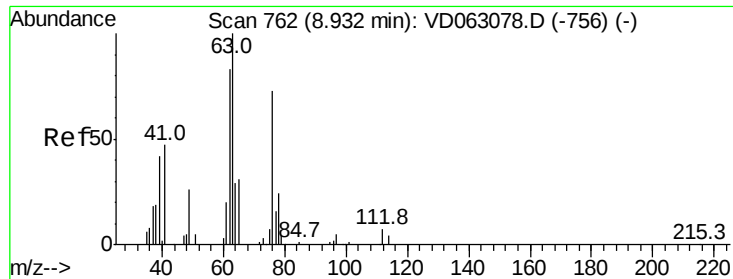


#44

Trichloroethene
 Concen: 52.381 ug/l
 RT: 8.55 min Scan# 724
 Delta R.T. 0.02 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Tgt Ion	Ratio	Lower	Upper
130	100		
95	93.4	0.0	191.4





#45

1,2-Dichloropropane

Concen: 53.552 ug/l

RT: 8.95 min Scan# 764

Delta R.T. 0.01 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 312519

Ion Ratio Lower Upper

63 100

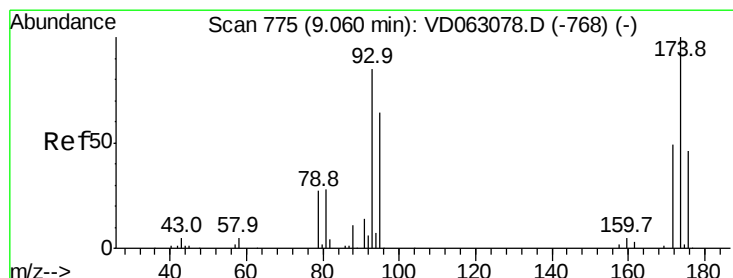
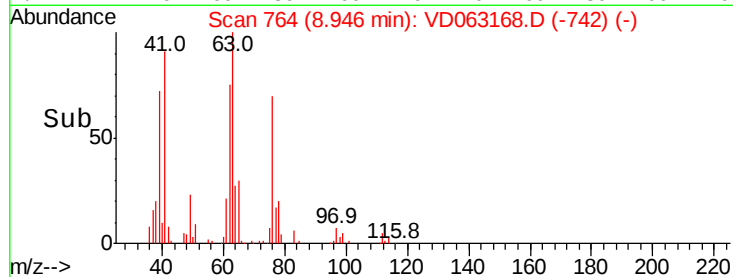
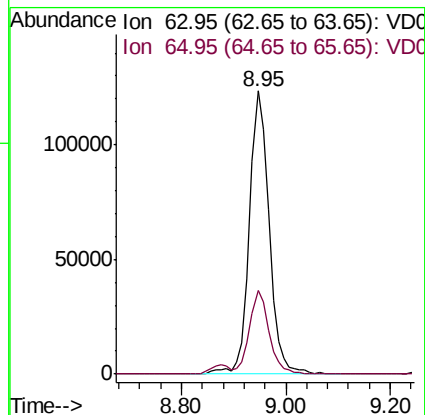
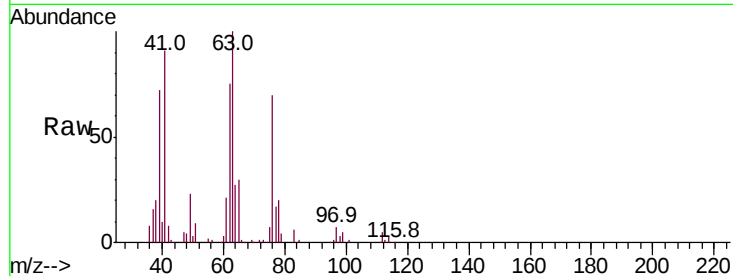
65 29.6 26.3 39.5

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#46

Dibromomethane

Concen: 54.029 ug/l

RT: 9.07 min Scan# 777

Delta R.T. 0.01 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

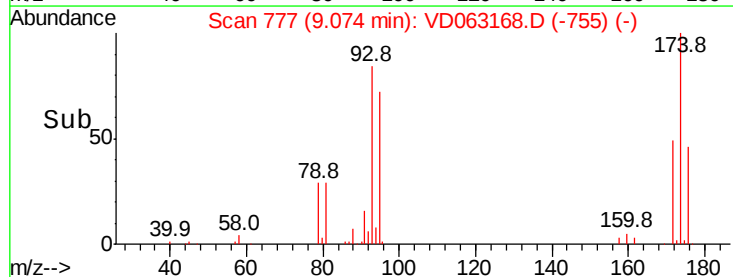
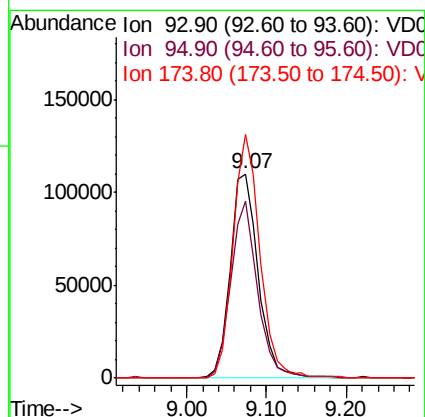
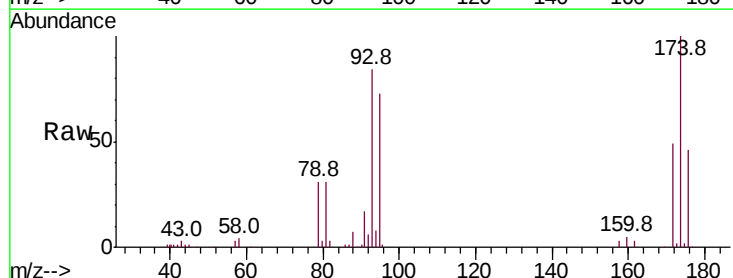
Tgt Ion: 93 Resp: 270946

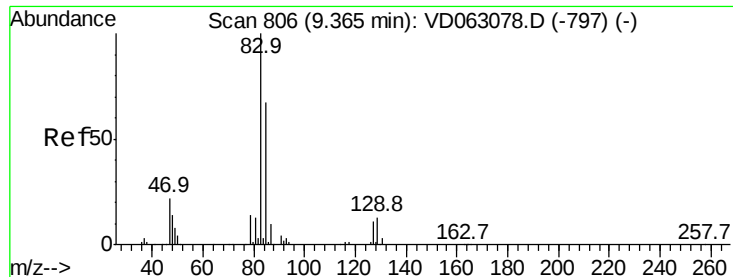
Ion Ratio Lower Upper

93 100

95 86.6 59.7 89.5

174 119.2 93.9 140.9





#47

Bromodichloromethane

Concen: 52.985 ug/l

RT: 9.38 min Scan# 808

Delta R.T. 0.01 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

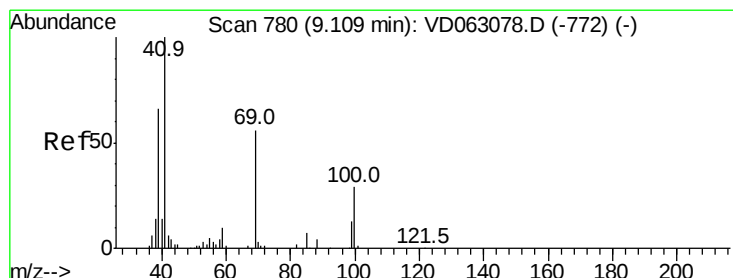
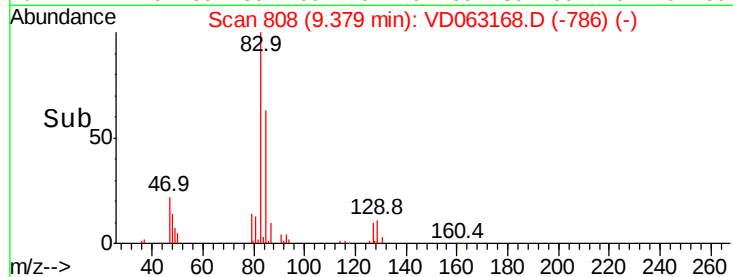
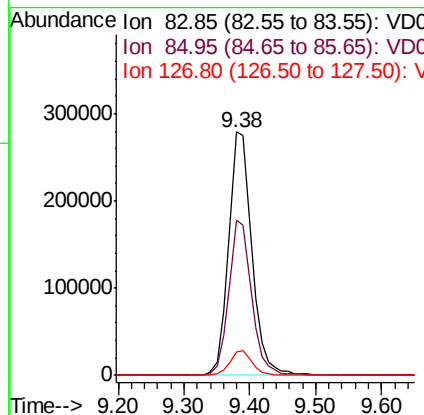
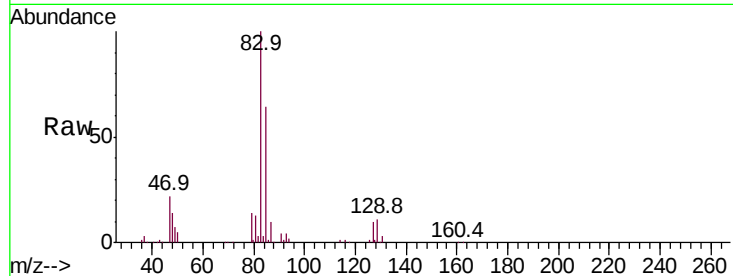
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	693382
Ion Ratio	Lower	Upper	
83	100		
85	63.6	53.7	80.5
127	9.6	9.0	13.6

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#48

Methyl methacrylate

Concen: 56.073 ug/l

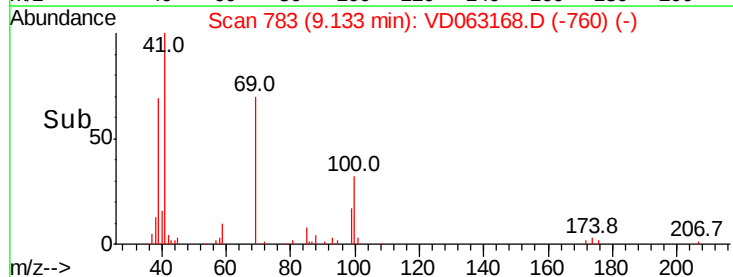
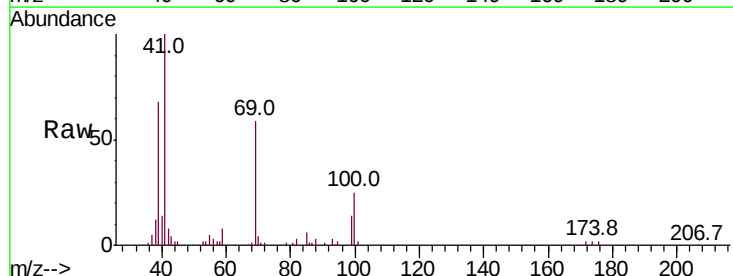
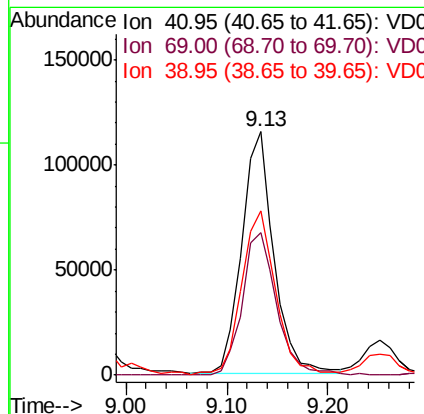
RT: 9.13 min Scan# 783

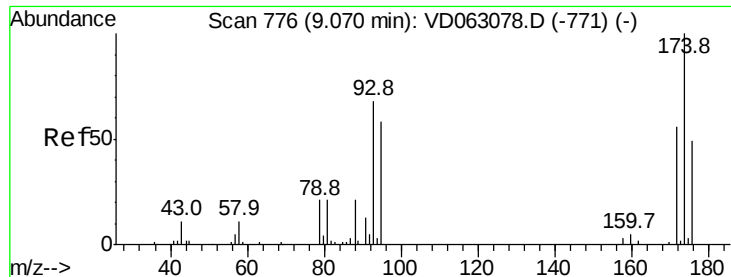
Delta R.T. 0.02 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Tgt Ion:	41	Resp:	252446
Ion Ratio	Lower	Upper	
41	100		
69	58.8	44.3	66.5
39	67.7	52.6	78.8





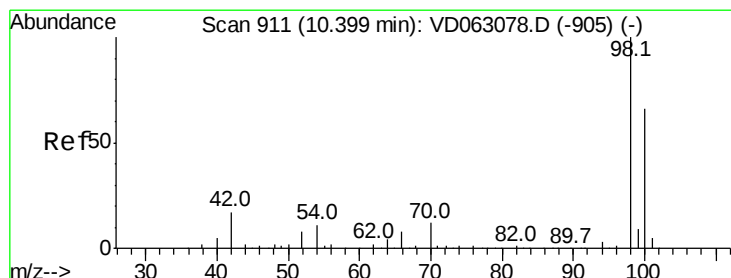
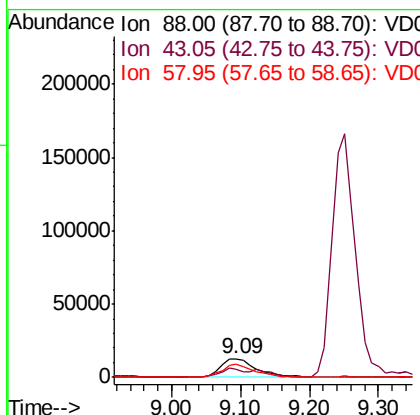
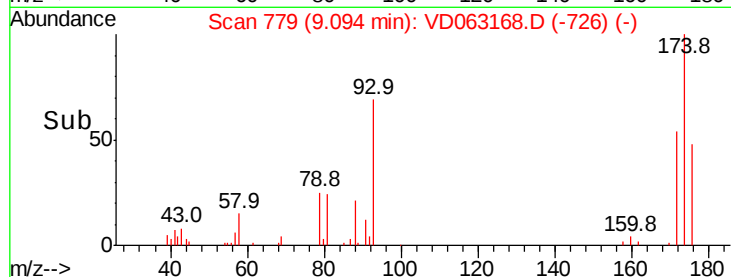
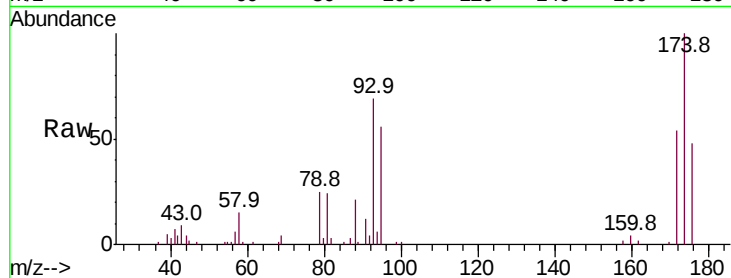
#49
1,4-Dioxane
Concen: 1185.364 ug/l
RT: 9.09 min Scan# 779
Delta R.T. 0.02 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	43.4	40.2	60.4
58	68.5	41.6	62.4

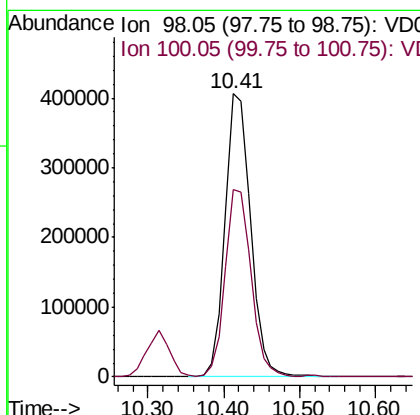
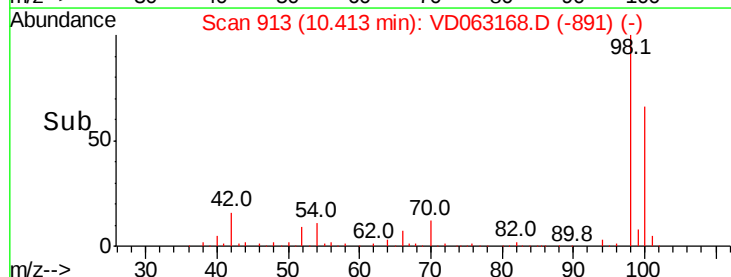
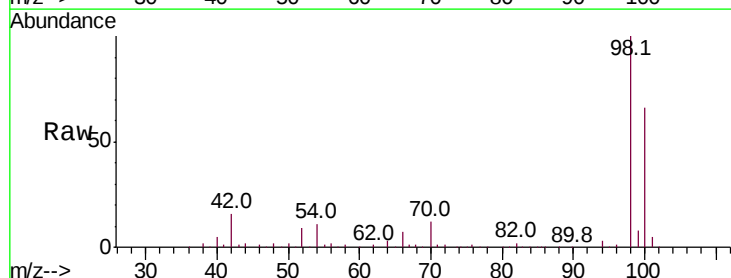
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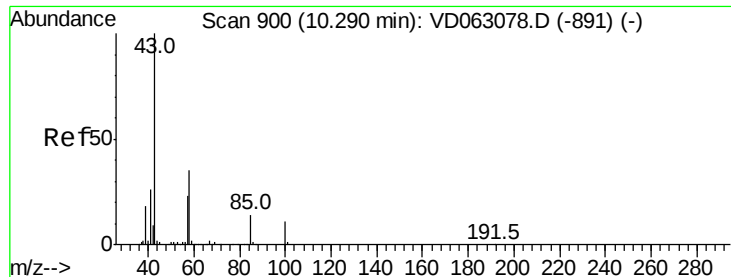
MMDadoda
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#50
Toluene-d8
Concen: 44.605 ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.4	53.5	80.3





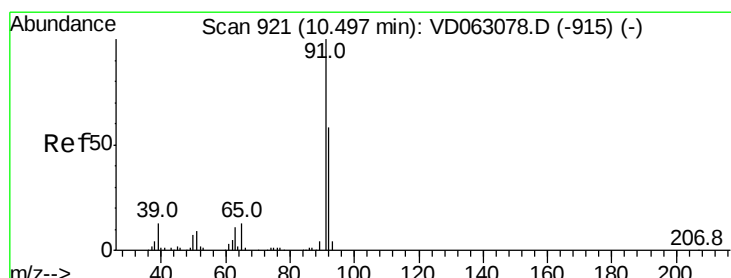
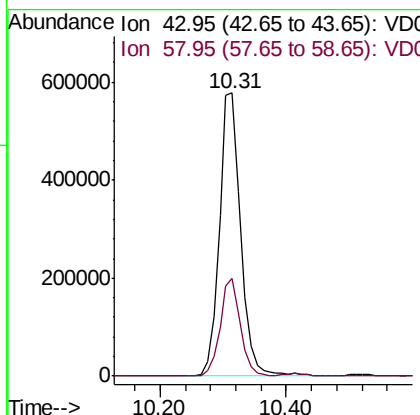
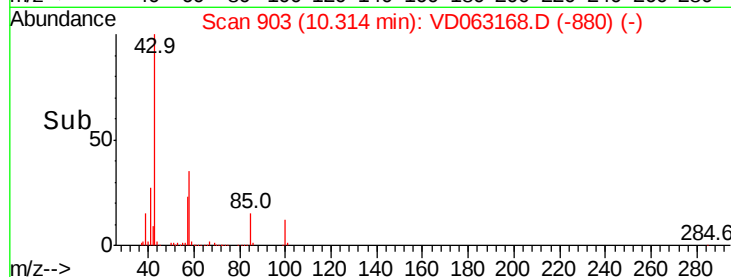
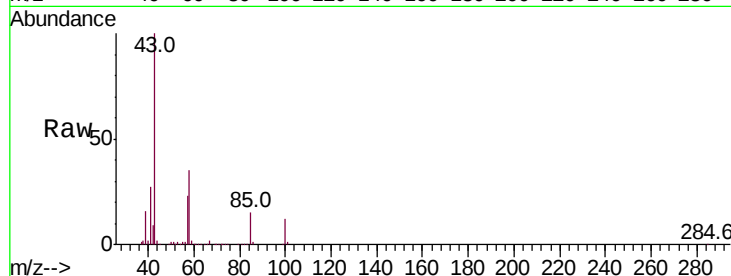
#51
4-Methyl-2-Pentanone
Concen: 299.829 ug/l
RT: 10.31 min Scan# 903
Delta R.T. 0.02 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1363335
Ion Ratio Lower Upper
43 100
58 34.6 27.8 41.6

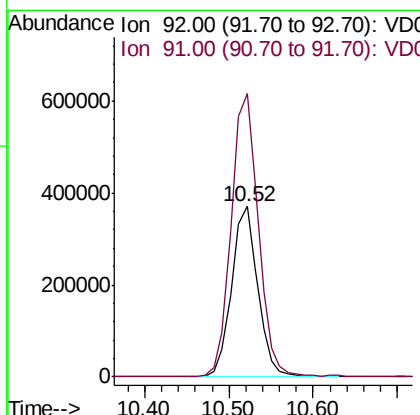
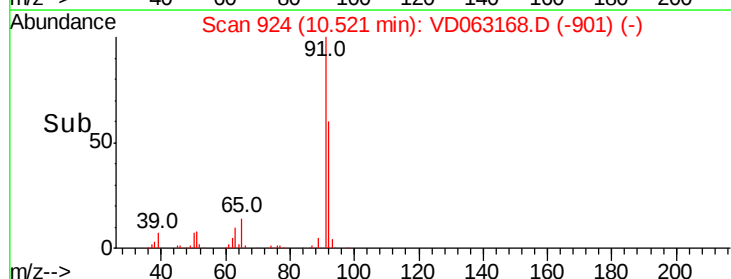
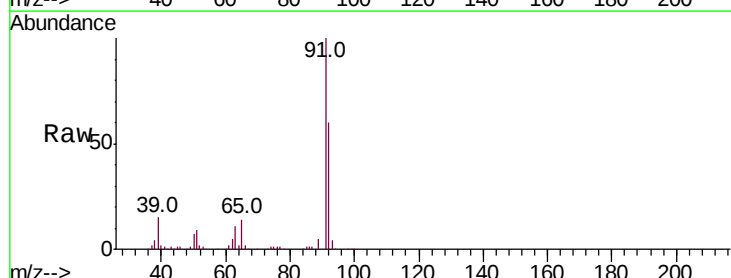
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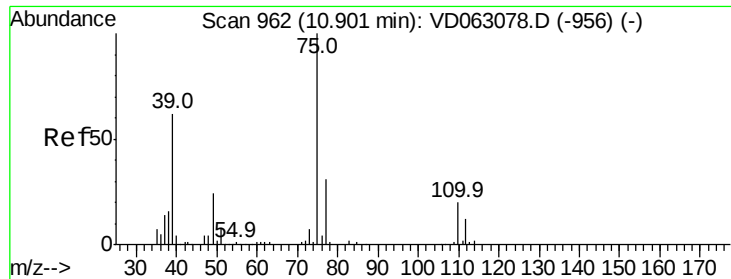
MMDadoda
7/23/2019 10:40:12 AM



#52
Toluene
Concen: 51.377 ug/l
RT: 10.52 min Scan# 924
Delta R.T. 0.02 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion: 92 Resp: 803044
Ion Ratio Lower Upper
92 100
91 166.3 137.9 206.9





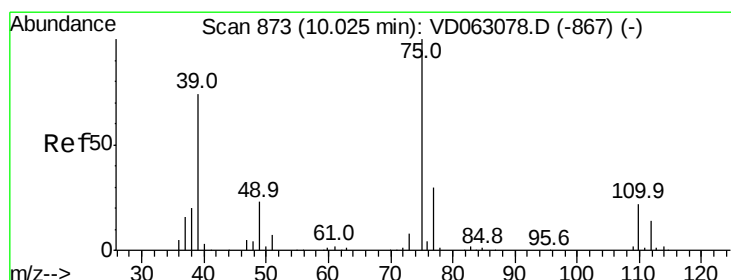
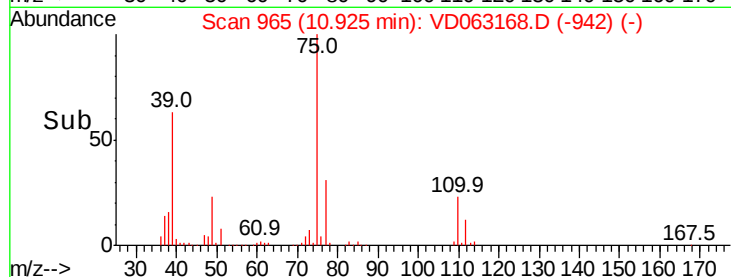
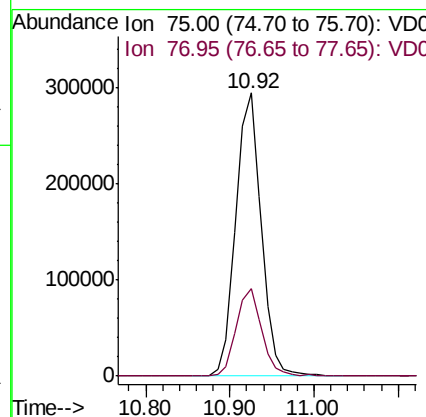
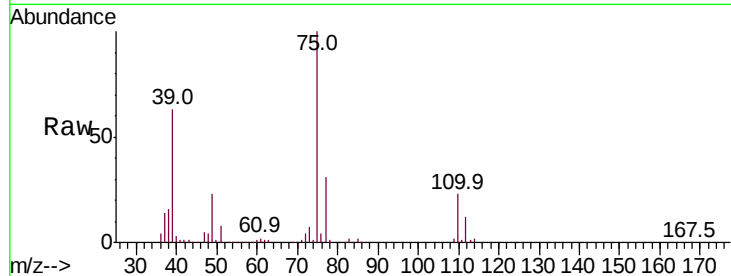
#53
t-1,3-Dichloropropene
Concen: 55.517 ug/l
RT: 10.92 min Scan# 965
Delta R.T. 0.02 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 75 Resp: 622433
Ion Ratio Lower Upper
75 100
77 31.1 24.9 37.3

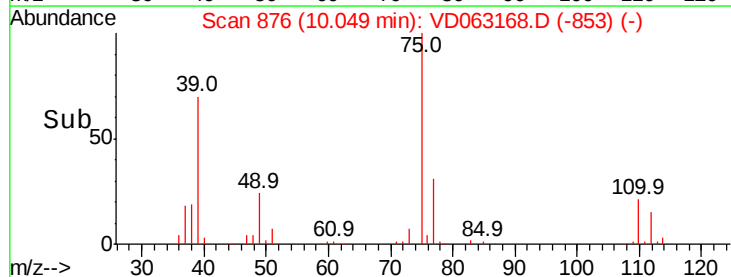
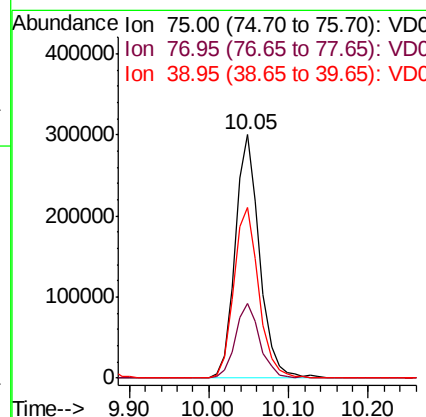
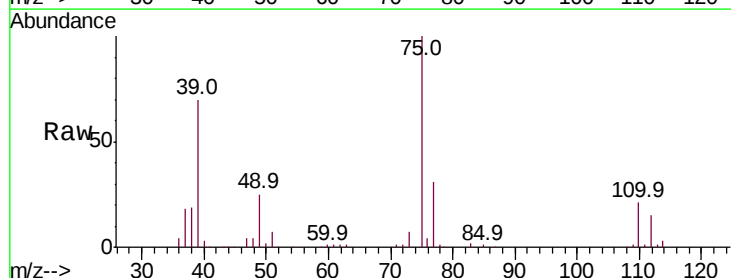
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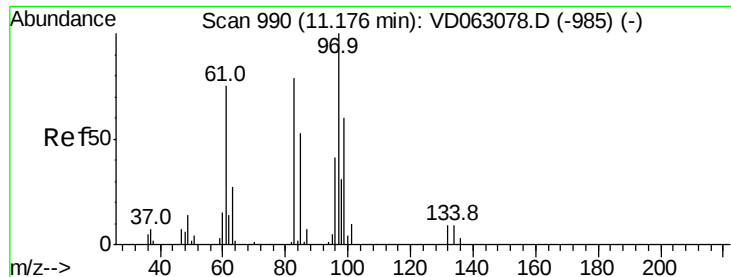
MMDadoda
7/23/2019 10:40:12 AM



#54
cis-1,3-Dichloropropene
Concen: 55.281 ug/l
RT: 10.05 min Scan# 876
Delta R.T. 0.02 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion: 75 Resp: 640858
Ion Ratio Lower Upper
75 100
77 30.6 23.9 35.9
39 69.9 59.4 89.0





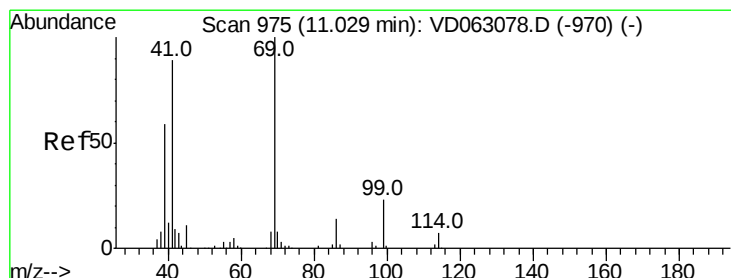
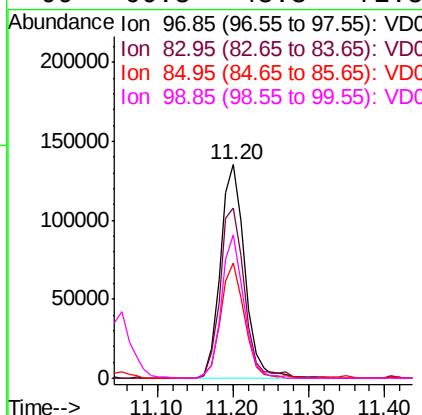
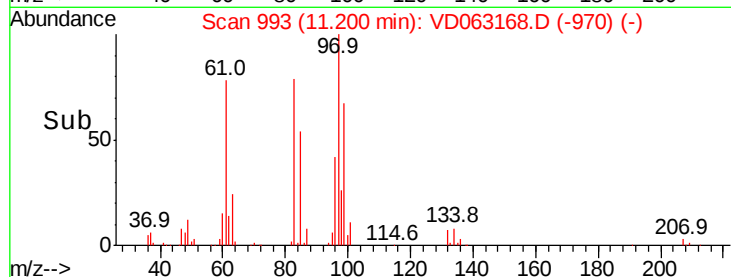
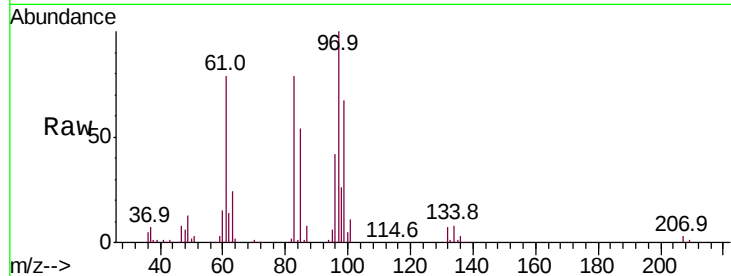
#55
1,1,2-Trichloroethane
Concen: 56.073 ug/l
RT: 11.20 min Scan# 993
Delta R.T. 0.02 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
97	100	302880		
83	79.4	63.2	94.8	
85	54.2	42.0	63.0	
99	66.8	48.3	72.5	

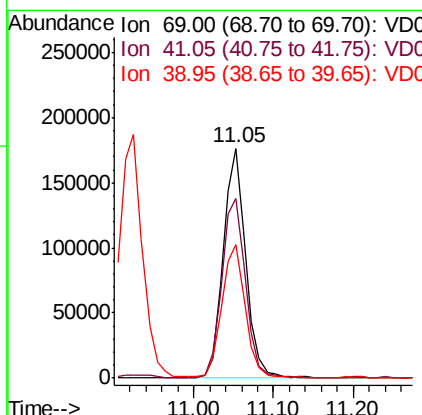
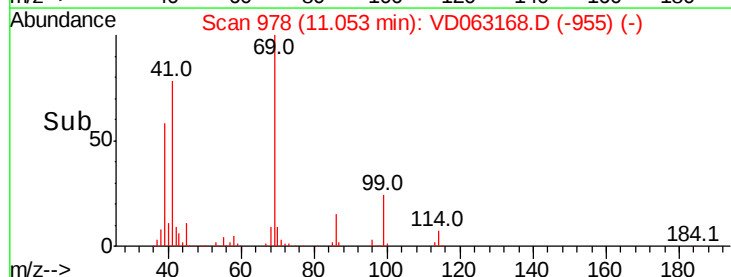
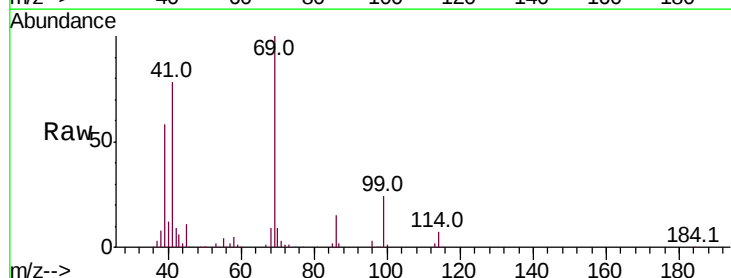
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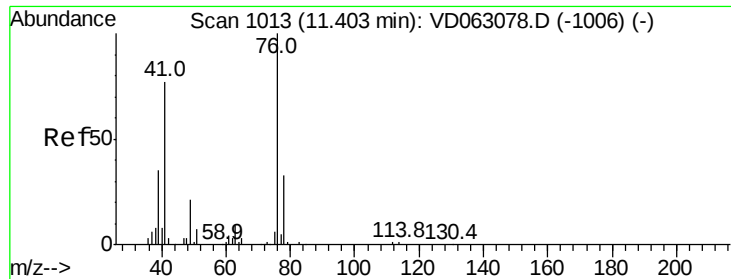
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7/23/2019 10:40:12 AM



#56
Ethyl methacrylate
Concen: 58.301 ug/l
RT: 11.05 min Scan# 978
Delta R.T. 0.02 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion	Ratio	Resp	Lower	Upper
69	100	351858		
41	77.9	71.0	106.4	
39	58.2	47.7	71.5	





#57

1,3-Dichloropropane

Concen: 54.387 ug/l

RT: 11.42 min Scan# 1015

Delta R.T. 0.01 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleID :

VSTDCCC050

Tot Ion: 76 Resp: 447020

Ion Ratio Lower Upper

76 100

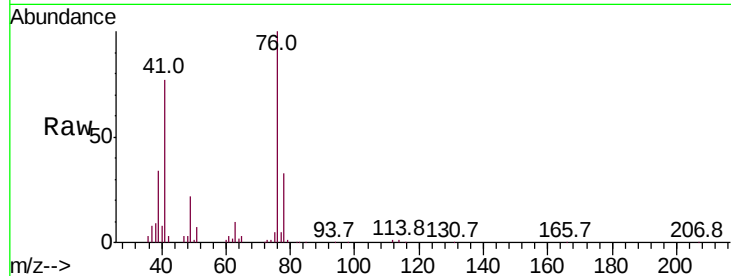
78 32.6 26.8 40.2

Manual Integrations

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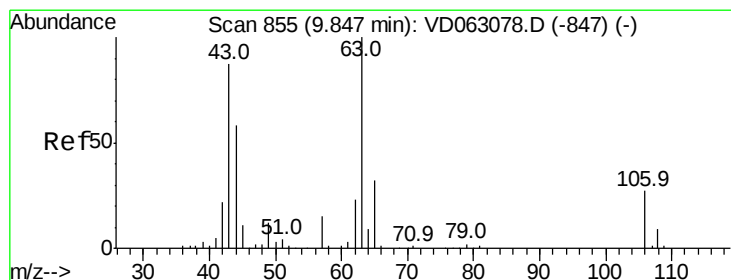
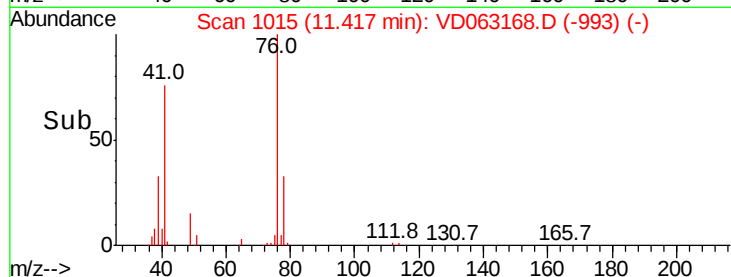
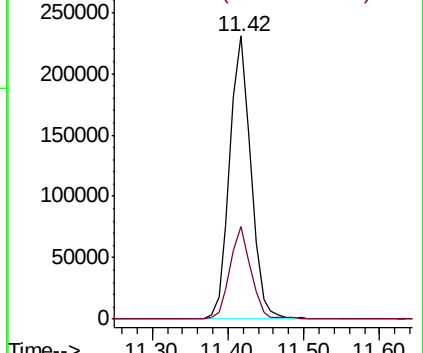
MMDadoda

7/23/2019 10:40:12 AM



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 264.204 ug/l

RT: 9.87 min Scan# 858

Delta R.T. 0.02 min

Lab File: VD063168.D

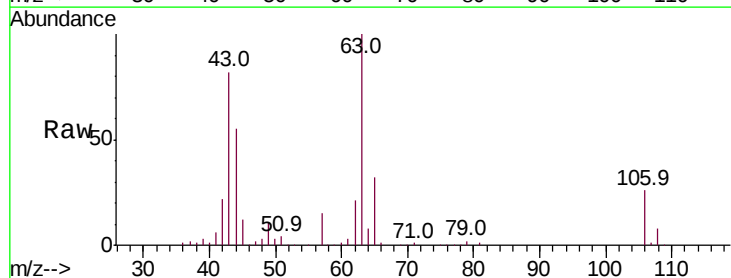
Acq: 22 Jul 2019 10:53

Tgt Ion: 63 Resp: 887835

Ion Ratio Lower Upper

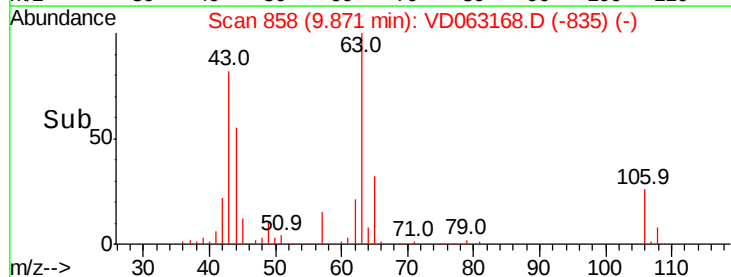
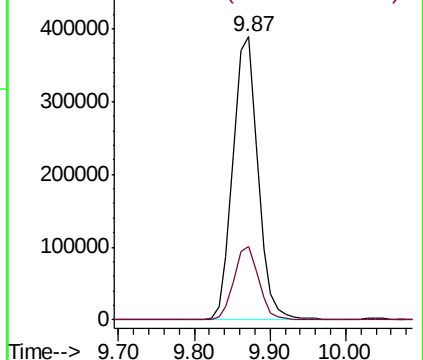
63 100

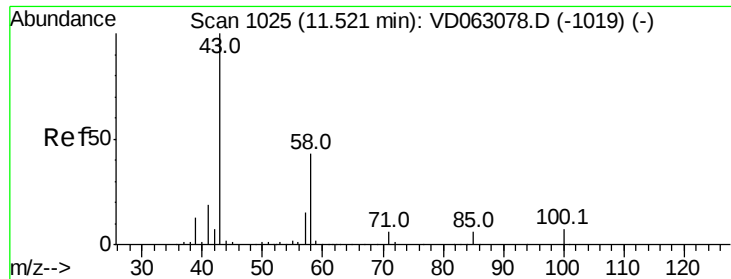
106 25.7 21.3 31.9



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V





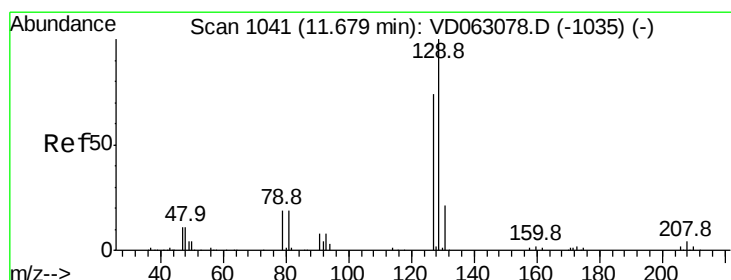
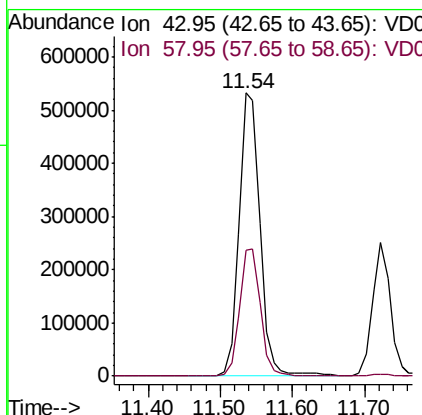
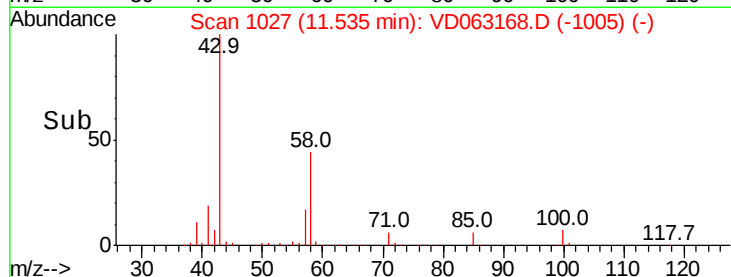
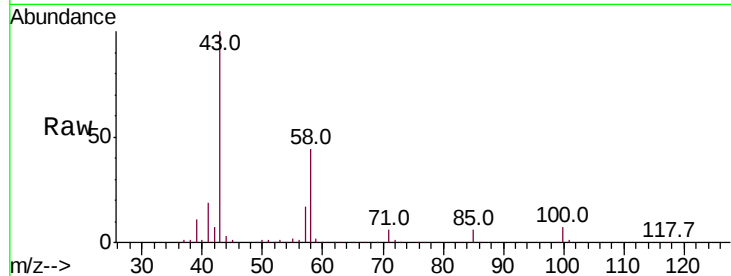
#59
2-Hexanone
Concen: 306.995 ug/l
RT: 11.54 min Scan# 1027
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1076547
Ion Ratio Lower Upper
43 100
58 44.3 21.7 65.1

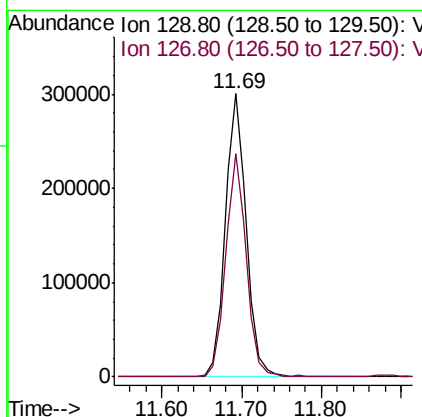
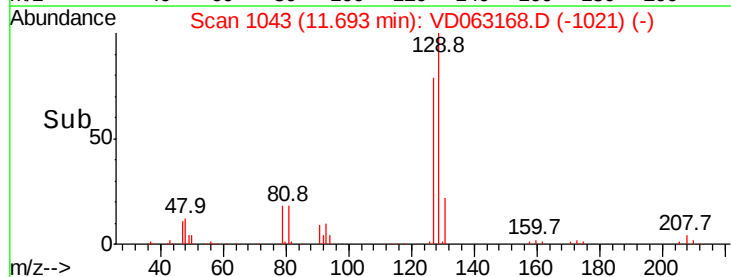
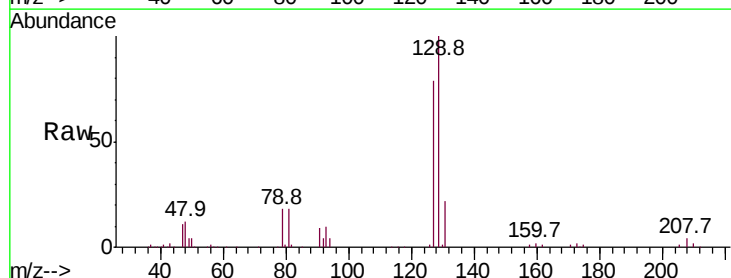
Manual Integrations
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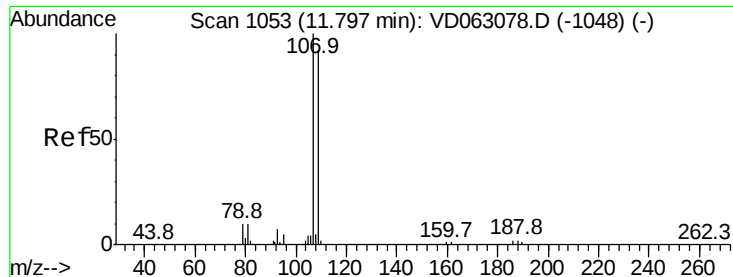
MMDadoda
7/23/2019 10:40:12 AM



#60
Dibromochloromethane
Concen: 53.712 ug/l
RT: 11.69 min Scan# 1043
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion: 129 Resp: 556139
Ion Ratio Lower Upper
129 100
127 78.9 37.0 110.9





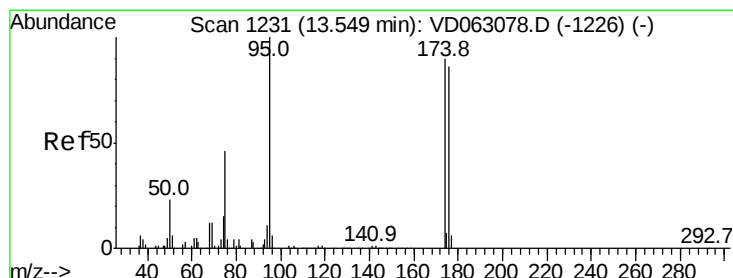
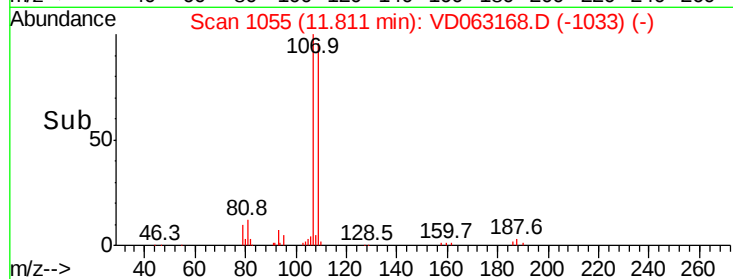
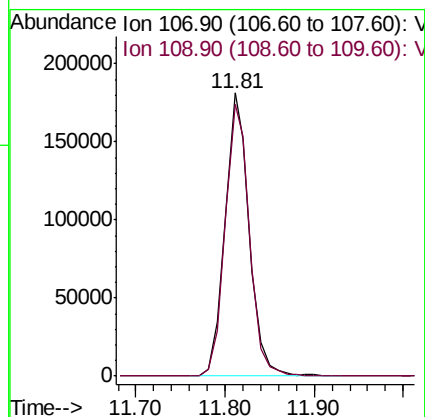
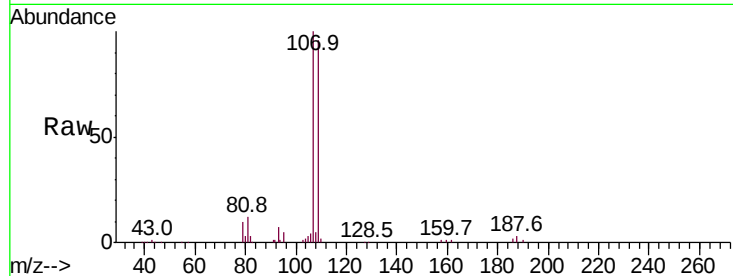
#61
 1,2-Dibromoethane
 Concen: 53.459 ug/l
 RT: 11.81 min Scan# 1055
 Delta R.T. 0.01 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
107	100	345643		
109	96.2	73.6	110.4	

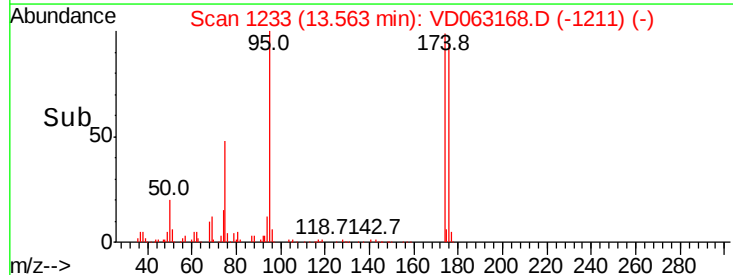
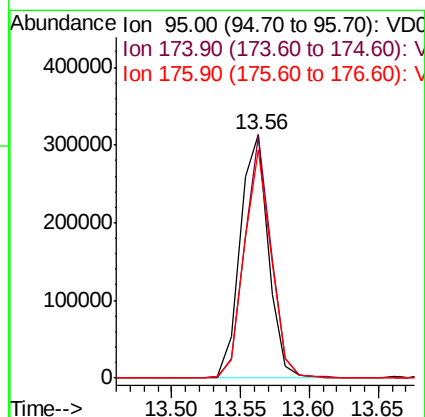
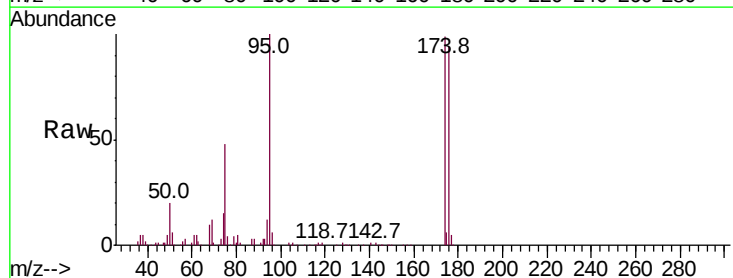
Manual Integrations
 APPROVED

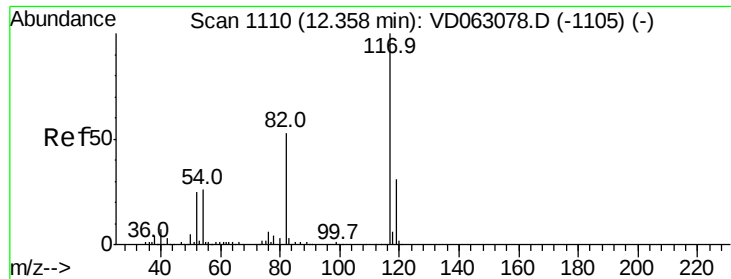
MMDadoda
 7/23/2019 10:40:12 AM



#62
 4-Bromofluorobenzene
 Concen: 45.564 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.01 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	448138		
174	99.4	0.0	180.6	
176	93.6	0.0	172.2	





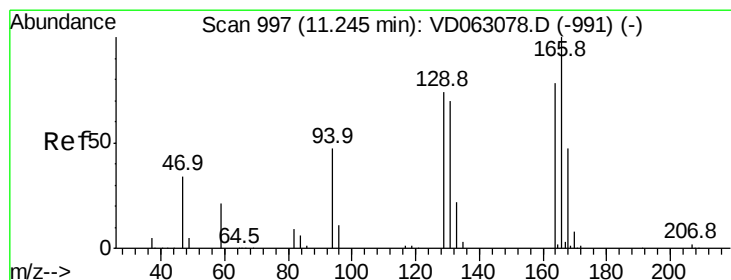
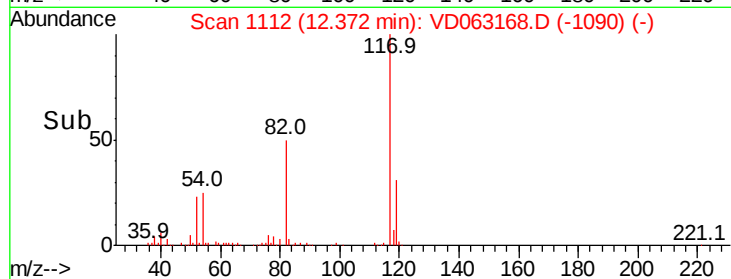
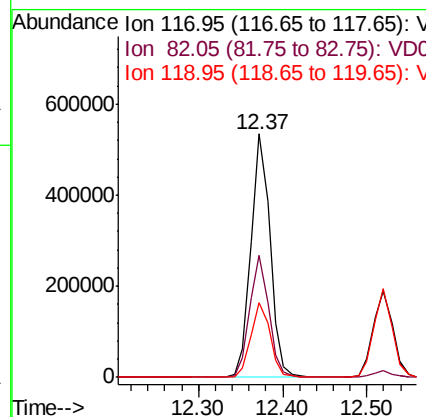
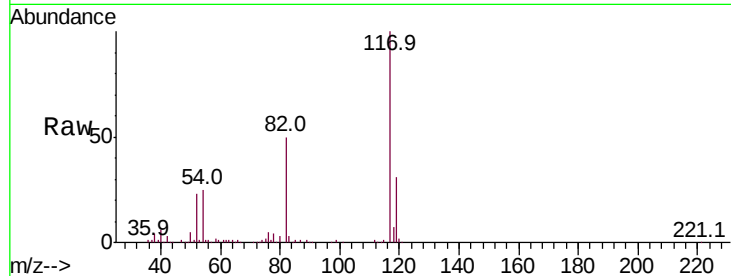
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	50.3	42.3	63.5
119	30.8	25.2	37.8

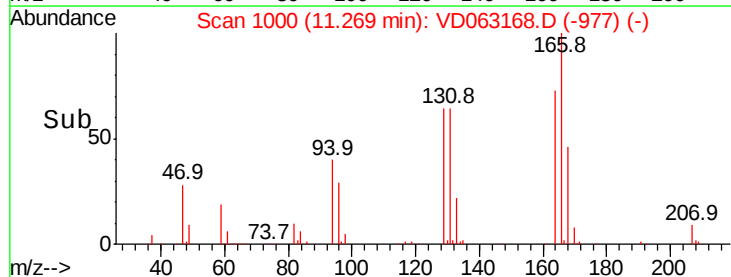
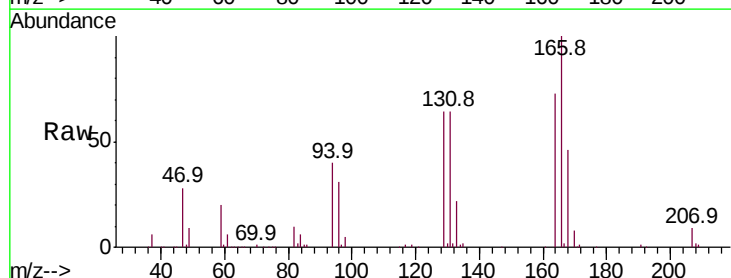
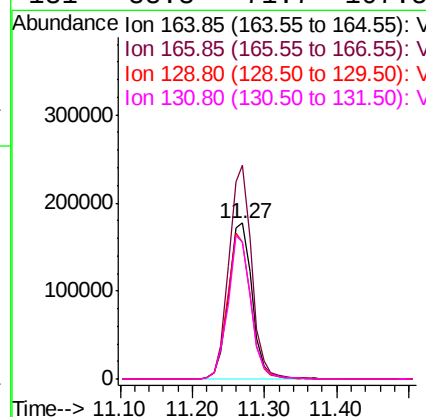
Manual Integrations
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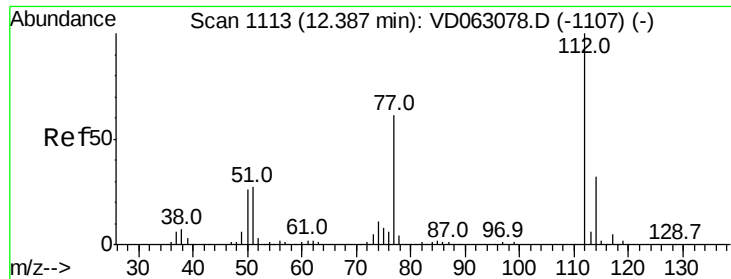
MMDadoda
7/23/2019 10:40:12 AM



#64
Tetrachloroethene
Concen: 48.489 ug/l
RT: 11.27 min Scan# 1000
Delta R.T. 0.02 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion	Ratio	Lower	Upper
164	100		
166	137.2	102.8	154.2
129	88.3	76.4	114.6
131	88.3	71.7	107.5





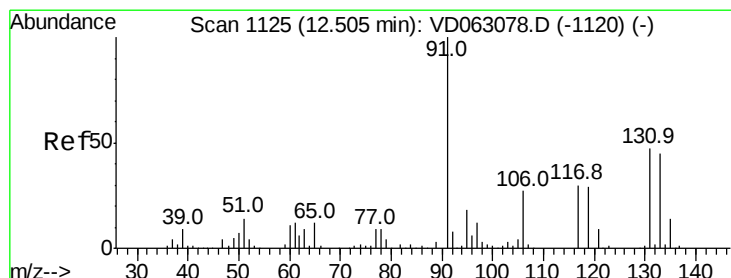
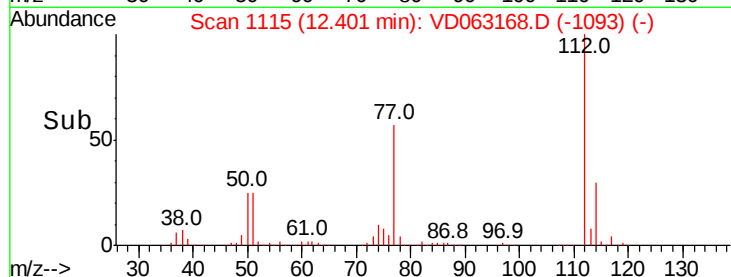
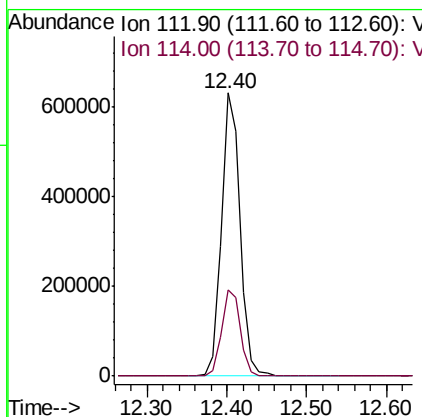
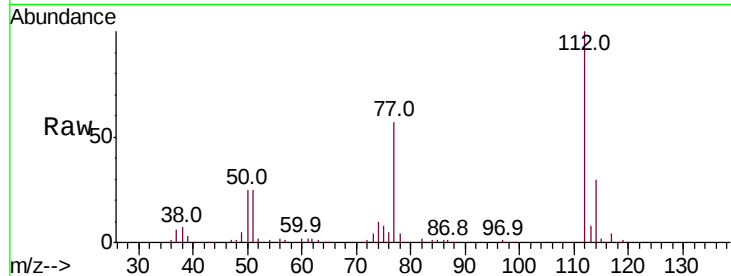
#65
Chlorobenzene
Concen: 52.119 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 1043445
Ion Ratio Lower Upper
112 100
114 30.4 25.9 38.9

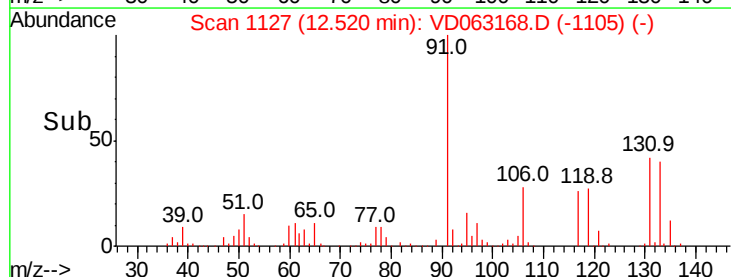
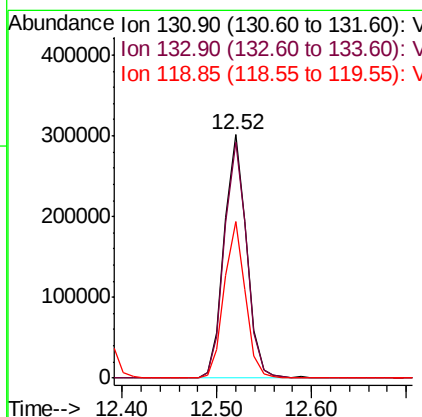
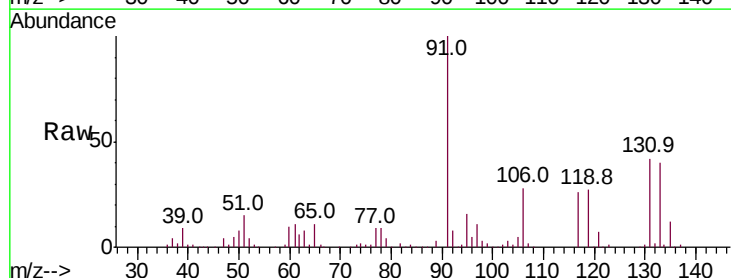
Manual Integrations
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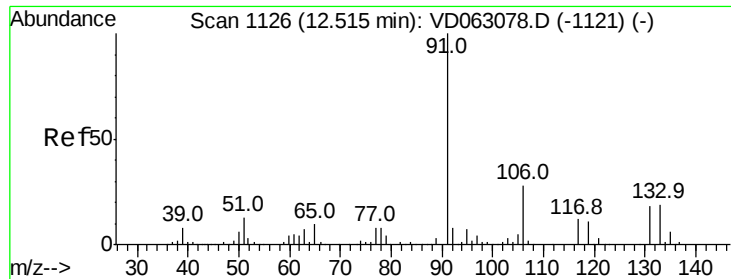
MMDadoda
7/23/2019 10:40:12 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 53.042 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion:131 Resp: 492334
Ion Ratio Lower Upper
131 100
133 97.1 48.5 145.6
119 64.5 30.8 92.3





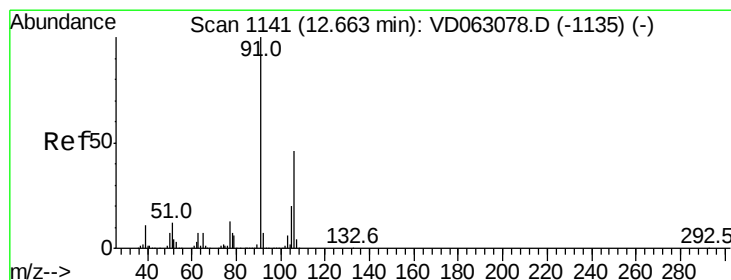
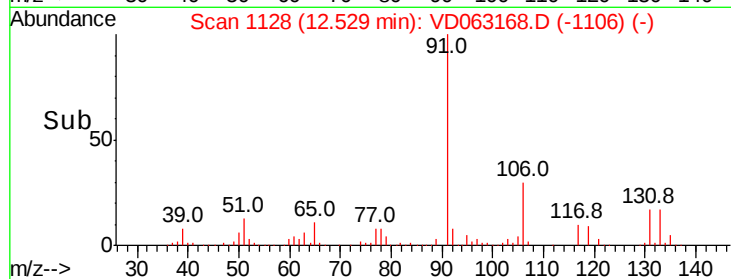
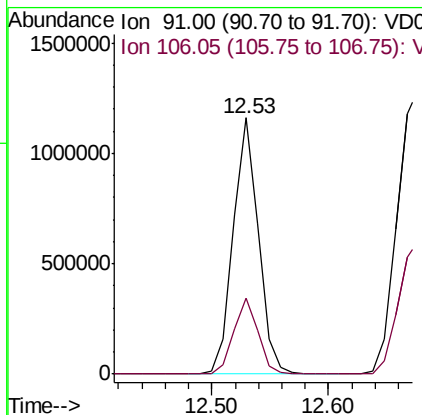
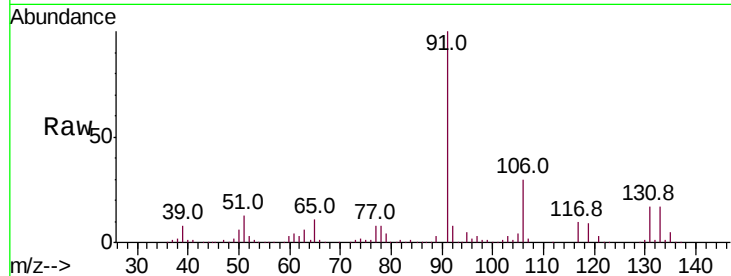
#67
Ethyl Benzene
Concen: 49.961 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1737930
Ion Ratio Lower Upper
91 100
106 29.8 22.5 33.7

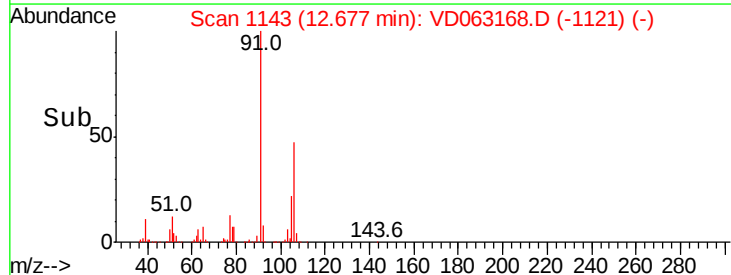
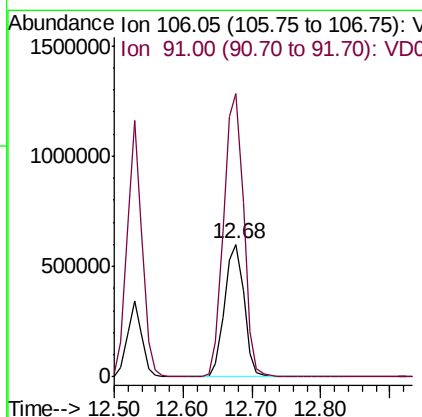
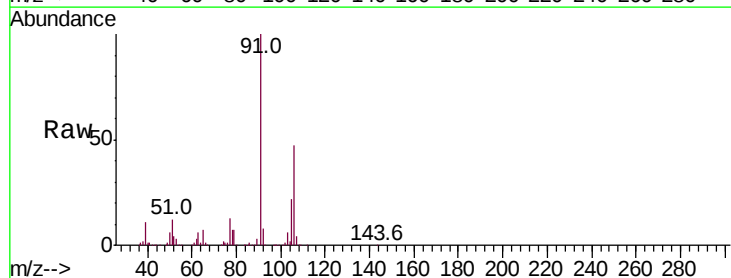
Manual Integrations
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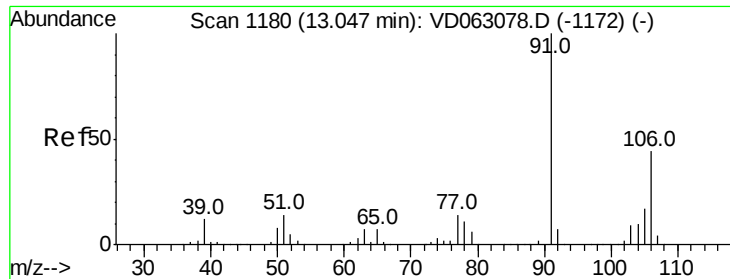
MMDadoda
7/23/2019 10:40:12 AM



#68
m/p-Xylenes
Concen: 94.958 ug/l
RT: 12.68 min Scan# 1143
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion: 106 Resp: 1183107
Ion Ratio Lower Upper
106 100
91 213.9 173.0 259.6





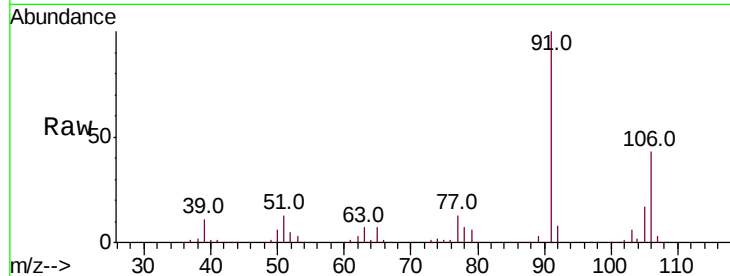
#69
o-Xylene
Concen: 48.632 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

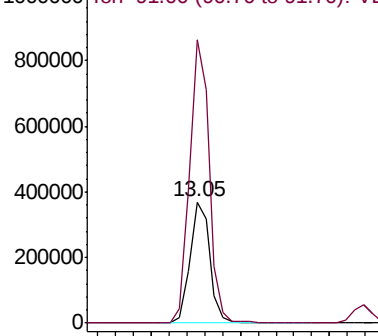
Tot Ion:106 Resp: 574534
Ion Ratio Lower Upper
106 100
91 234.2 114.9 344.7

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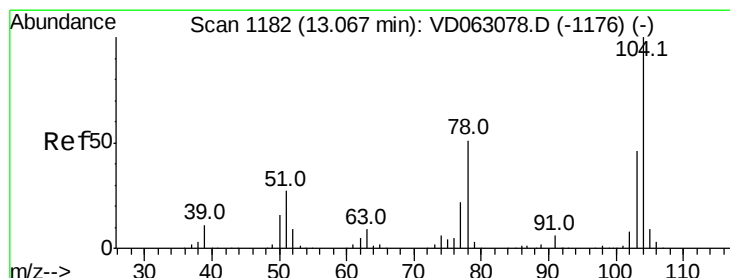
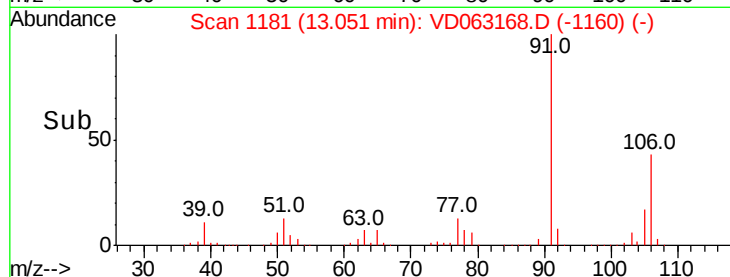
MMDadoda
7/23/2019 10:40:12 AM



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

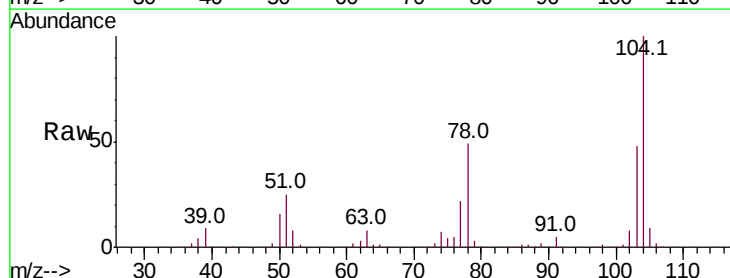


Time-->

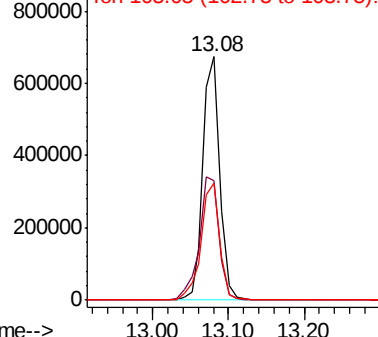


#70
Styrene
Concen: 49.895 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

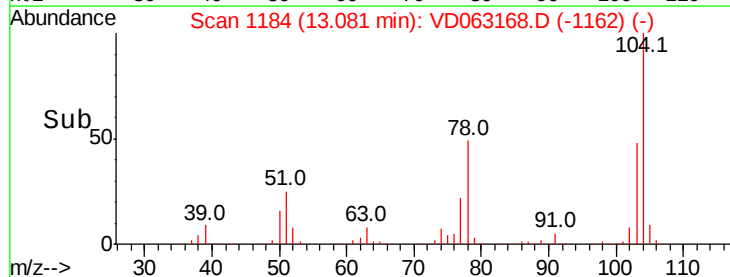
Tgt Ion:104 Resp: 1031800
Ion Ratio Lower Upper
104 100
78 49.3 41.1 61.7
103 48.1 37.0 55.6

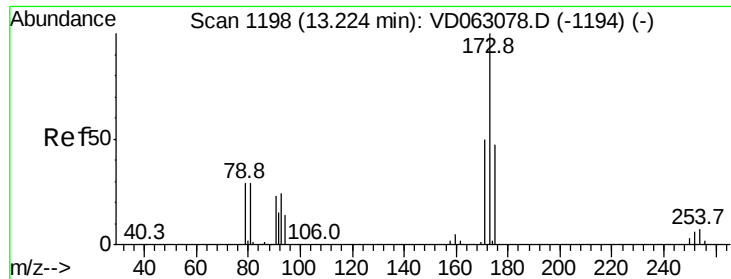


Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): V
Ion 103.05 (102.75 to 103.75): V



Time-->





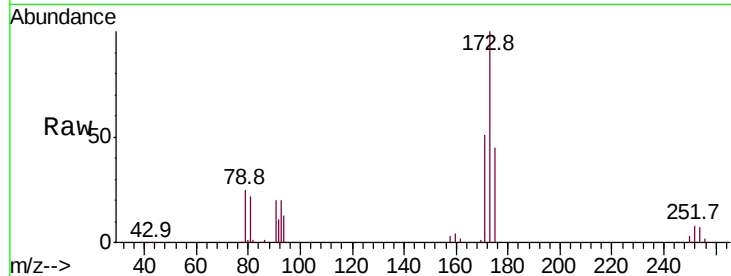
#71
Bromoform
Concen: 59.281 ug/l
RT: 13.24 min Scan# 1200
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

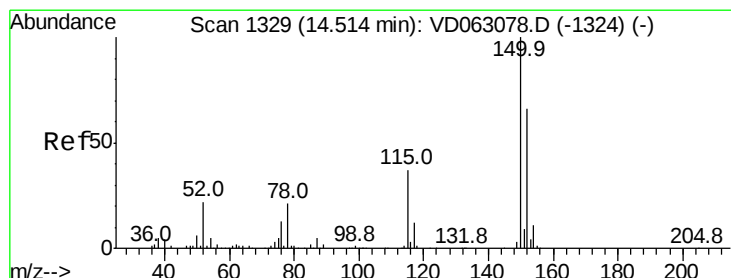
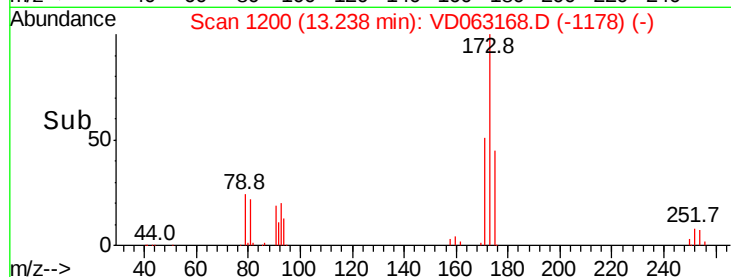
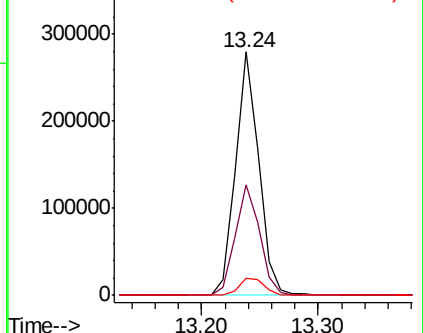
Tot Ion	Ratio	Lower	Upper
173	100		
175	45.3	23.4	70.2
254	7.1	5.4	8.0

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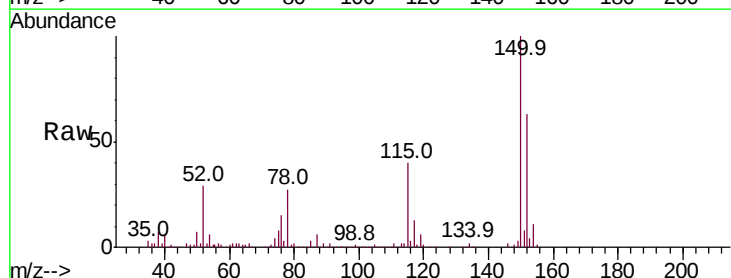


Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V

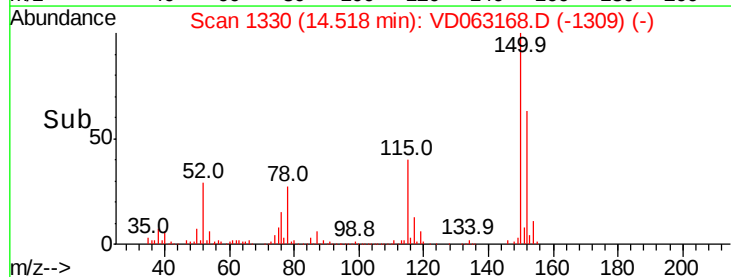
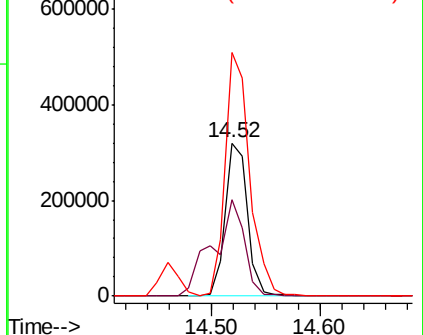


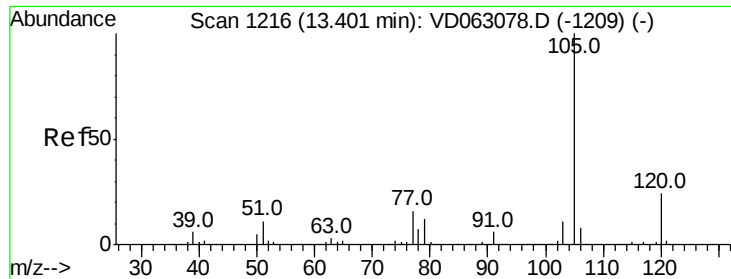
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.1	28.9	86.8
150	158.8	0.0	313.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V





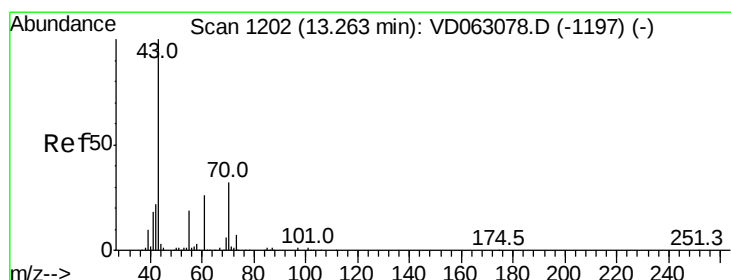
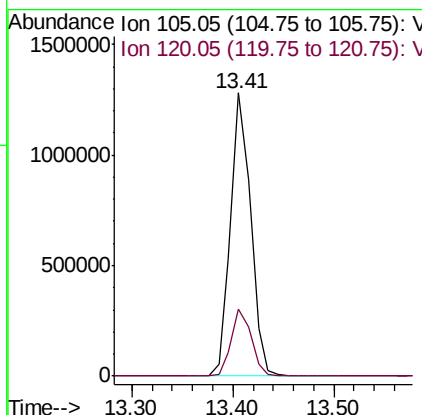
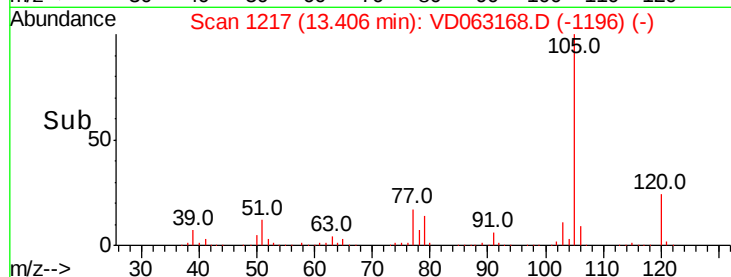
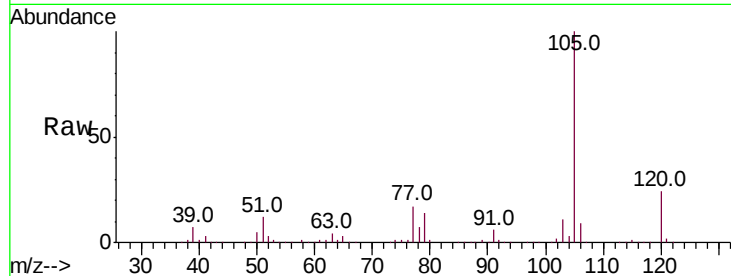
#73
Isopropylbenzene
Concen: 50.661 ug/l
RT: 13.41 min Scan# 1217
Delta R.T. 0.00 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:105 Resp: 1783186
Ion Ratio Lower Upper
105 100
120 23.7 12.2 36.4

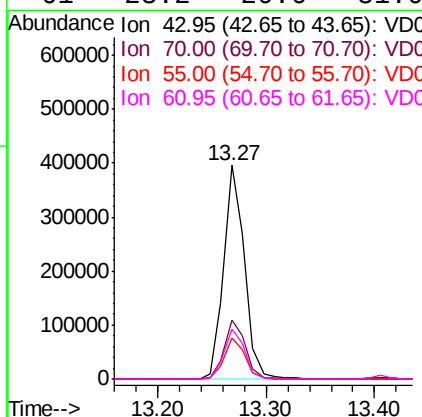
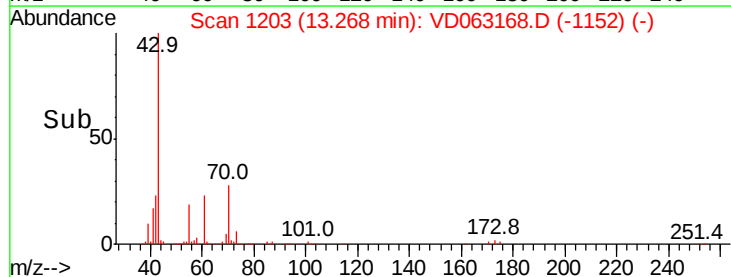
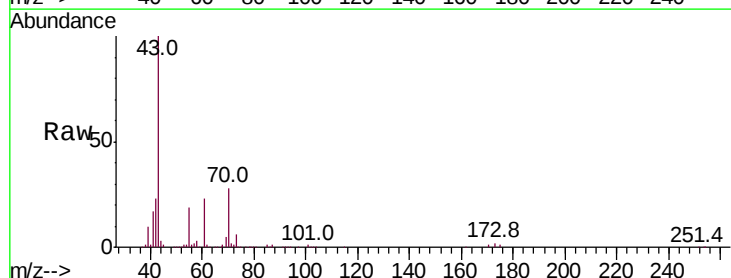
Manual Integrations
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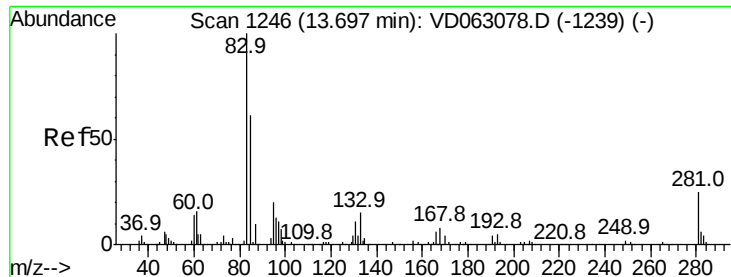
MMDadoda
7/23/2019 10:40:12 AM



#74
N-ethyl acetate
Concen: 53.758 ug/l
RT: 13.27 min Scan# 1203
Delta R.T. 0.00 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion: 43 Resp: 527715
Ion Ratio Lower Upper
43 100
70 27.5 25.5 38.3
55 19.4 15.4 23.0
61 23.2 20.6 31.0





#75

1,1,2,2-Tetrachloroethane

Concen: 52.743 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. 0.00 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 337770

Ion Ratio Lower Upper

83 100

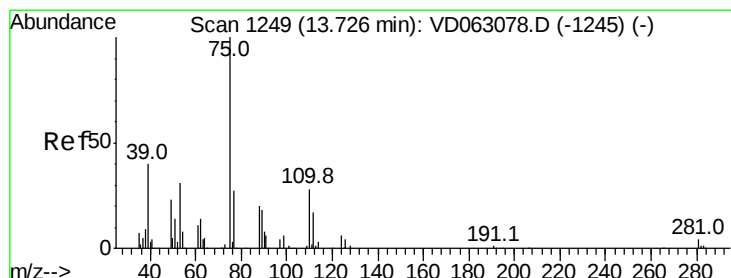
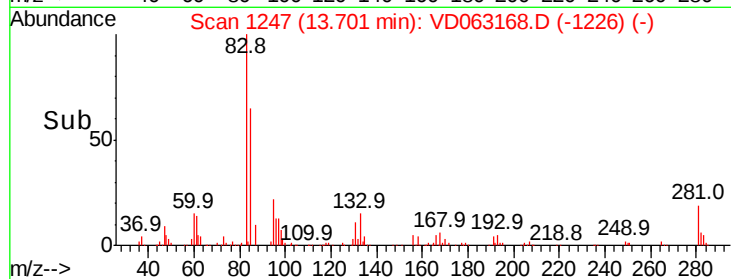
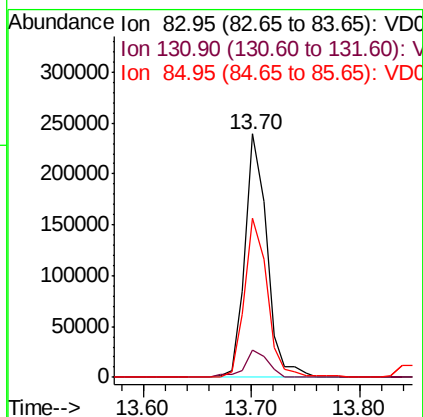
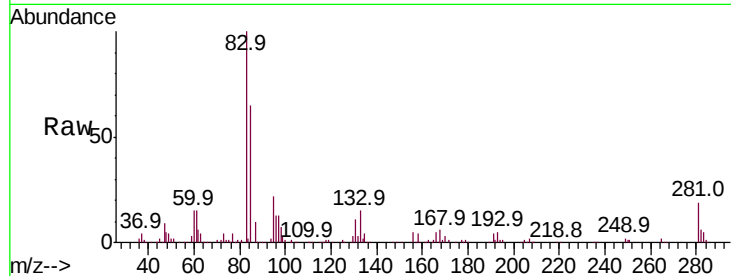
131 11.0 5.5 16.7

85 65.2 30.7 92.1

Manual Integrations
APPROVED

MMDadoda

7/23/2019 10:40:12 AM



#76

1,2,3-Trichloropropane

Concen: 54.776 ug/l

RT: 13.74 min Scan# 1251

Delta R.T. 0.01 min

Lab File: VD063168.D

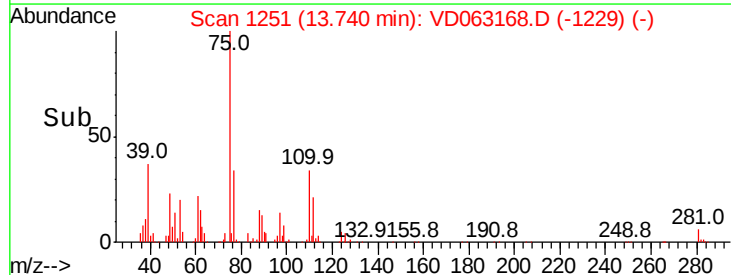
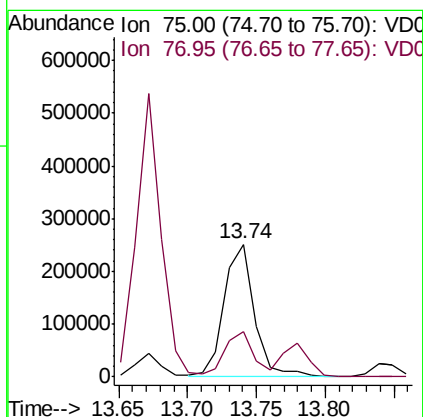
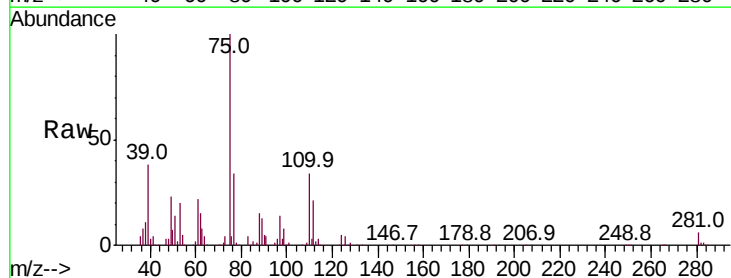
Acq: 22 Jul 2019 10:53

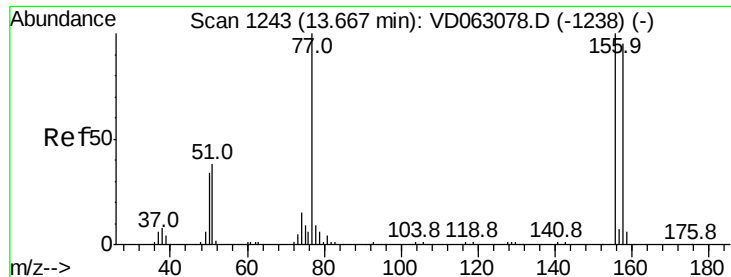
Tgt Ion: 75 Resp: 384044

Ion Ratio Lower Upper

75 100

77 34.0 16.3 48.8





#77

Bromobenzene

Concen: 52.991 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. 0.00 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

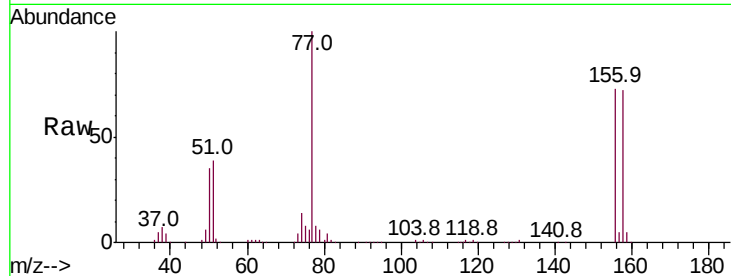
ClientSampleId :

VSTDCCC050

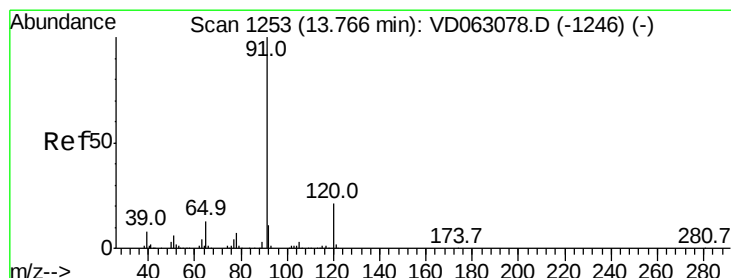
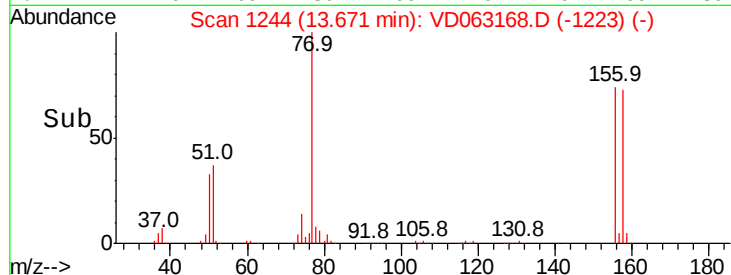
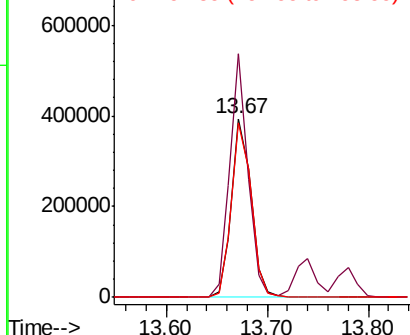
Tot Ion:	156	Resp:	528941
Ion Ratio	Lower	Upper	
156	100		
77	136.5	50.2	150.7
158	97.7	47.6	142.9

Manual Integrations
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Abundance Ion 155.90 (155.60 to 156.60): V
Ion 76.95 (76.65 to 77.65): VDC
Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 52.053 ug/l

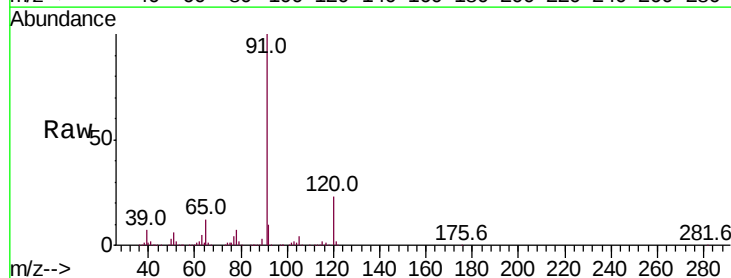
RT: 13.78 min Scan# 1255

Delta R.T. 0.01 min

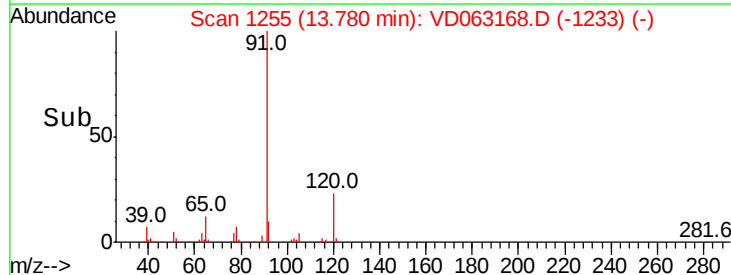
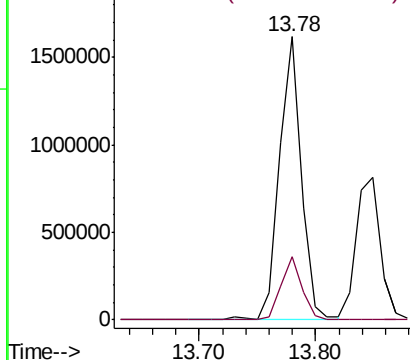
Lab File: VD063168.D

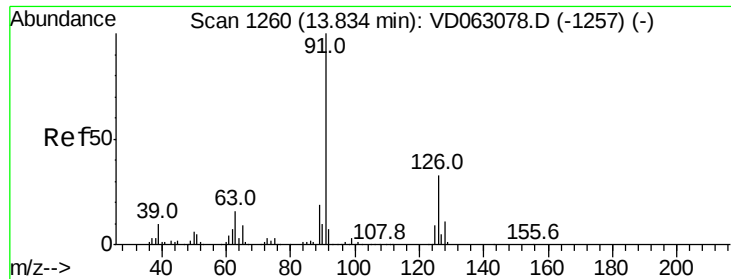
Acq: 22 Jul 2019 10:53

Tgt Ion:	91	Resp:	2108427
Ion Ratio	Lower	Upper	
91	100		
120	22.5	10.5	31.6



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 47.997 ug/l

RT: 13.85 min Scan# 1262

Delta R.T. 0.01 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1175484

Ion Ratio Lower Upper

91 100

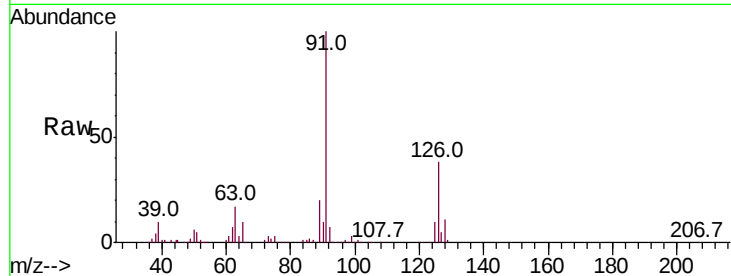
126 37.6 16.4 49.2

Manual Integrations

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MMDadoda

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Abundance Ion 91.00 (90.70 to 91.70): VD063078.D (-1257) (-)

Ion 125.95 (125.65 to 126.65): VD063078.D (-1257) (-)

1500000

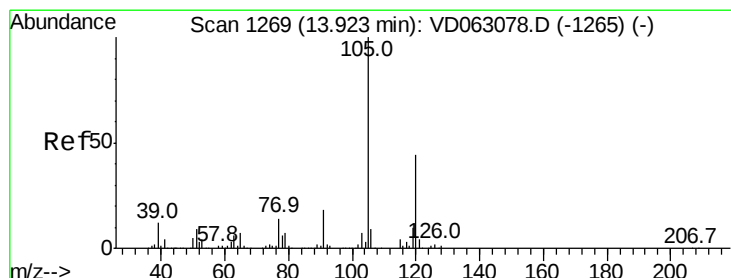
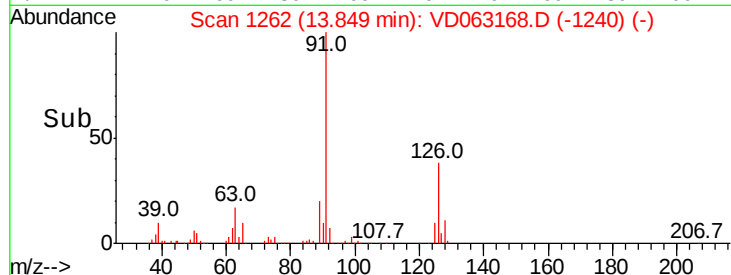
1000000

500000

0

13.80 13.85 13.90

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 46.891 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. 0.01 min

Lab File: VD063168.D

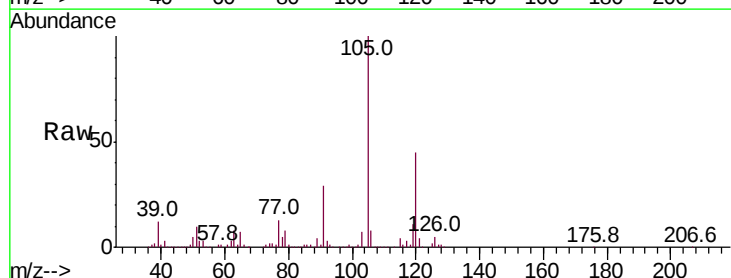
Acq: 22 Jul 2019 10:53

Tgt Ion:105 Resp: 1438490

Ion Ratio Lower Upper

105 100

120 45.2 21.8 65.4



Abundance Ion 105.05 (104.75 to 105.75): VD063078.D (-1265) (-)

Ion 120.05 (119.75 to 120.75): VD063078.D (-1265) (-)

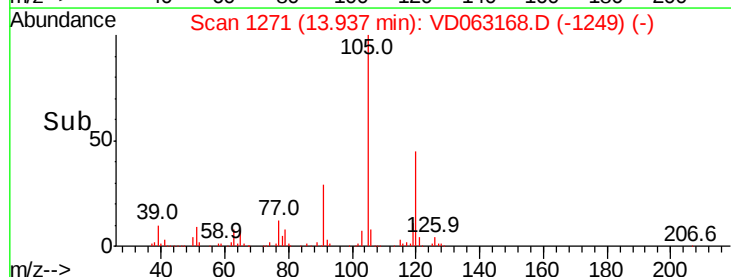
1000000

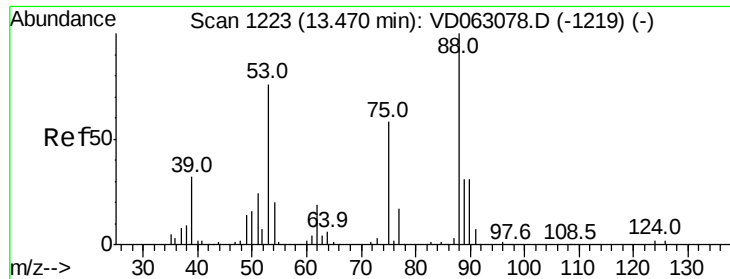
500000

0

13.90 13.94 14.00 14.10

Time-->





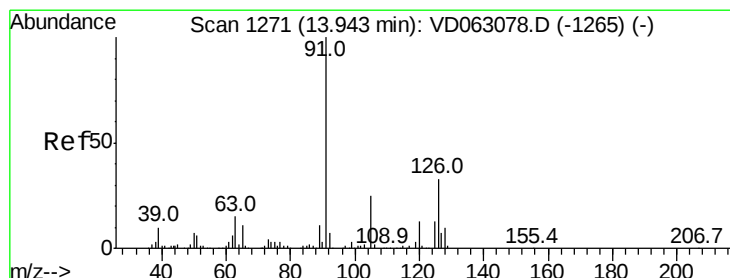
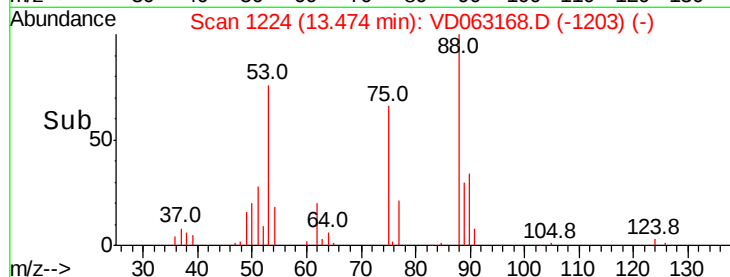
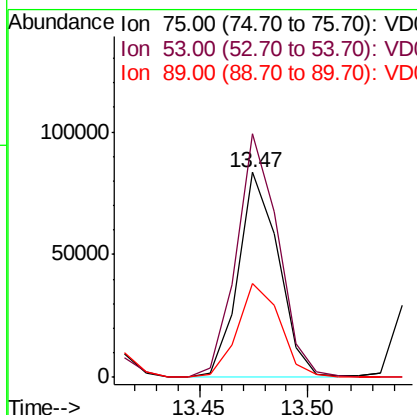
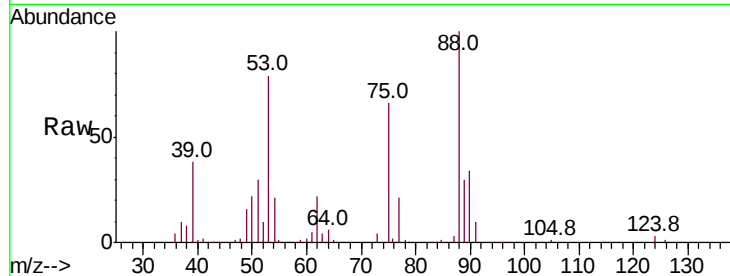
#81
 trans-1,4-Dichloro-2-butene
 Concen: 58.584 ug/l
 RT: 13.47 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	118.9	104.4	156.6
89	45.7	43.1	64.7

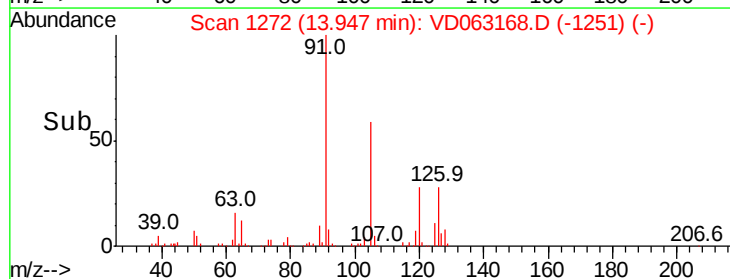
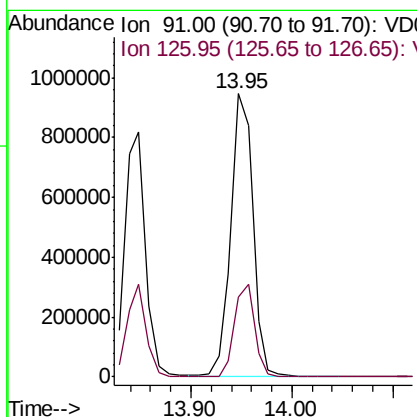
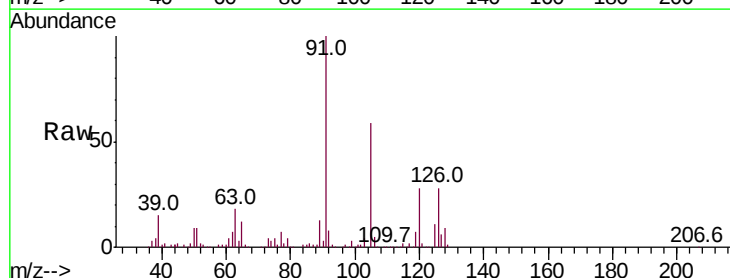
Manual Integrations
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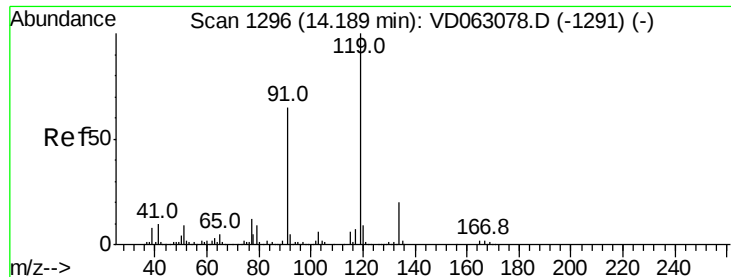
MMDadoda
 7/23/2019 10:40:12 AM



#82
 4-Chlorotoluene
 Concen: 50.098 ug/l
 RT: 13.95 min Scan# 1272
 Delta R.T. 0.00 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Tgt Ion	Ratio	Lower	Upper
91	100		
126	28.4	16.7	50.1





#83

tert-Butylbenzene

Concen: 48.743 ug/l

RT: 14.19 min Scan# 1297

Delta R.T. 0.00 min

Lab File: VD063168.D

Acq: 22 Jul 2019 10:53

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:119 Resp: 1690740

Ion Ratio Lower Upper

119 100

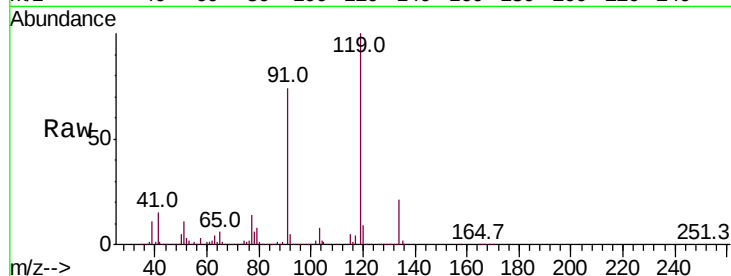
91 74.1 32.4 97.2

134 20.9 10.2 30.6

Manual Integrations
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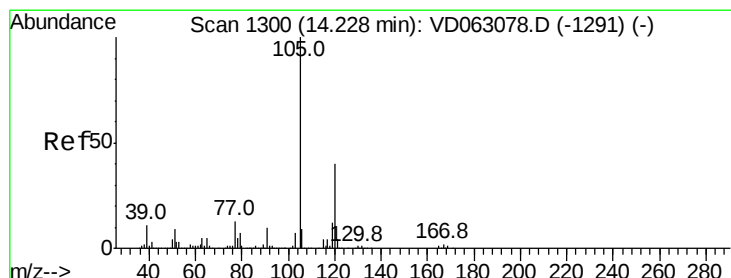
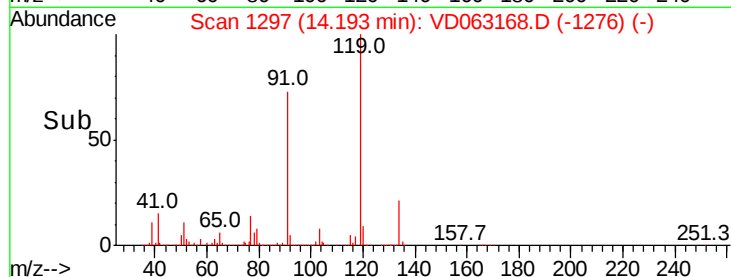
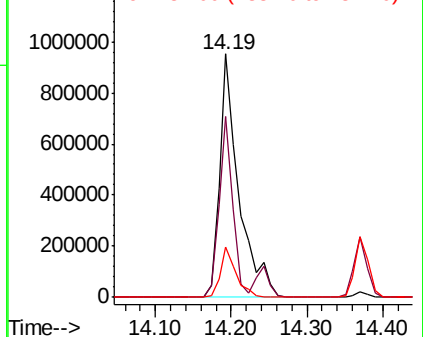
7/23/2019 10:40:12 AM



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 48.116 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. 0.01 min

Lab File: VD063168.D

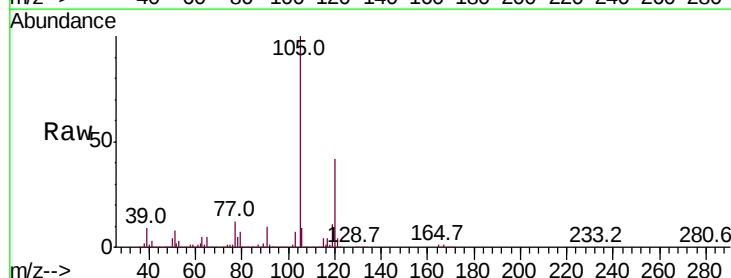
Acq: 22 Jul 2019 10:53

Tgt Ion:105 Resp: 1471564

Ion Ratio Lower Upper

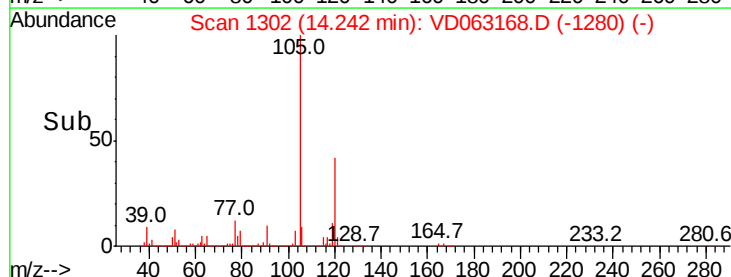
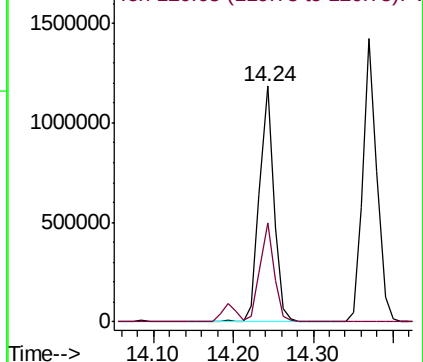
105 100

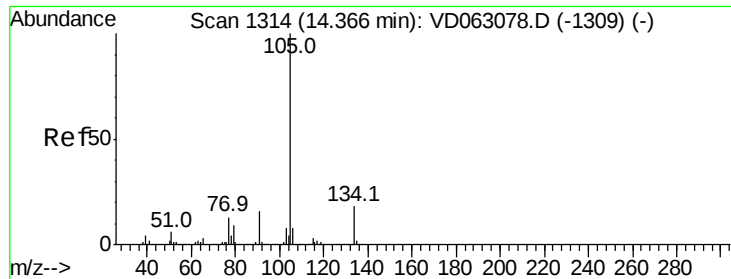
120 41.9 20.2 60.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





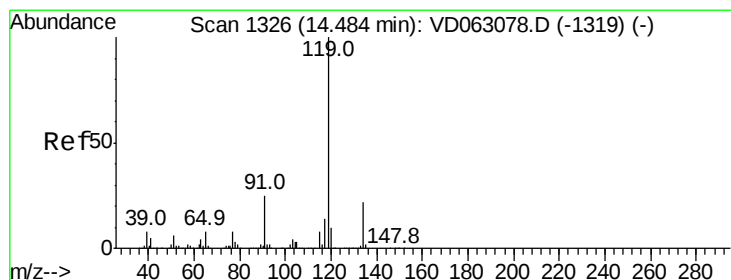
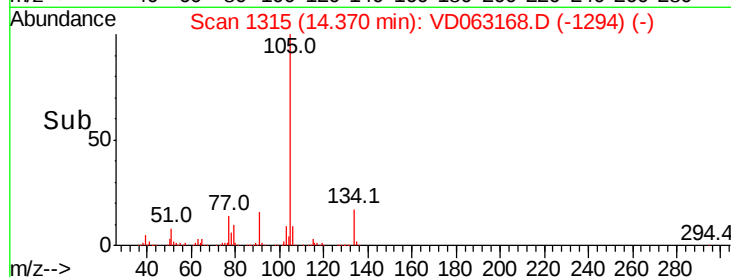
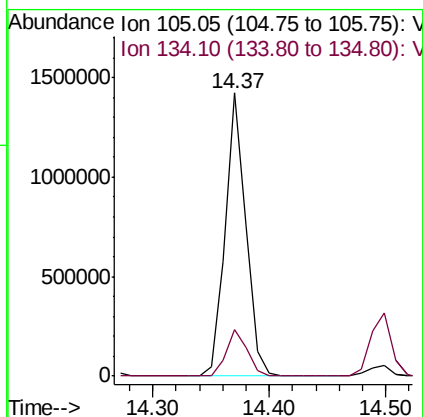
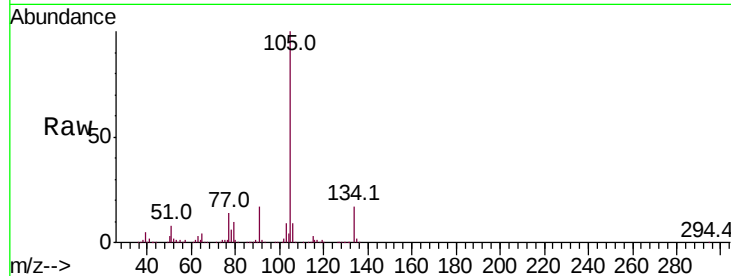
#85
 sec-Butylbenzene
 Concen: 47.347 ug/l
 RT: 14.37 min Scan# 1315
 Delta R.T. 0.00 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:105 Resp: 1744911
 Ion Ratio Lower Upper
 105 100
 134 16.5 8.9 26.8

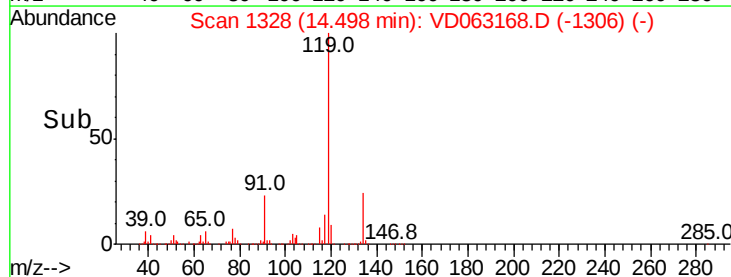
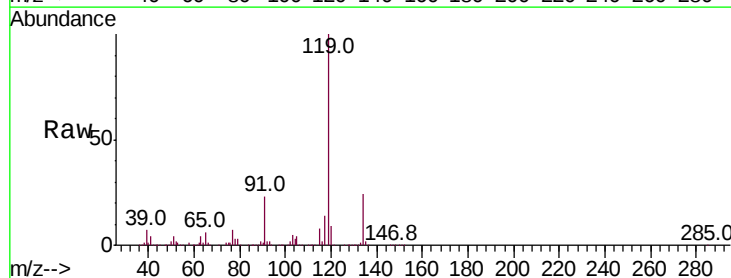
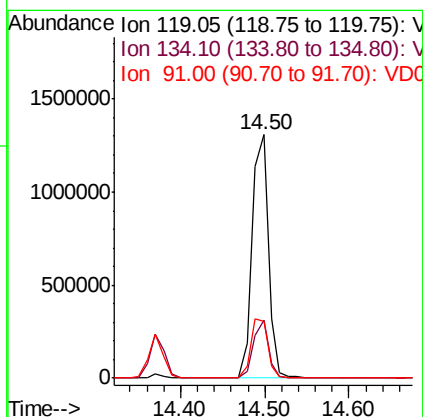
Manual Integrations
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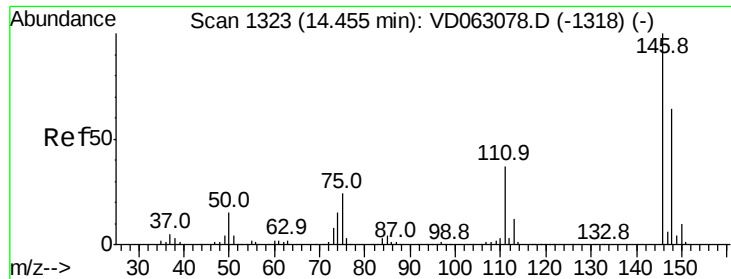
MMDadoda
 7/23/2019 10:40:12 AM



#86
 p-Isopropyltoluene
 Concen: 51.909 ug/l
 RT: 14.50 min Scan# 1328
 Delta R.T. 0.01 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Tgt Ion:119 Resp: 1784636
 Ion Ratio Lower Upper
 119 100
 134 24.1 10.8 32.4
 91 23.4 12.5 37.5





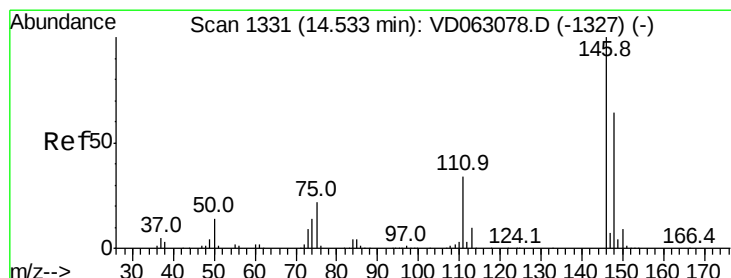
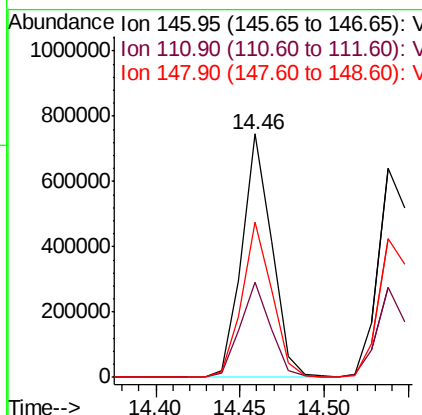
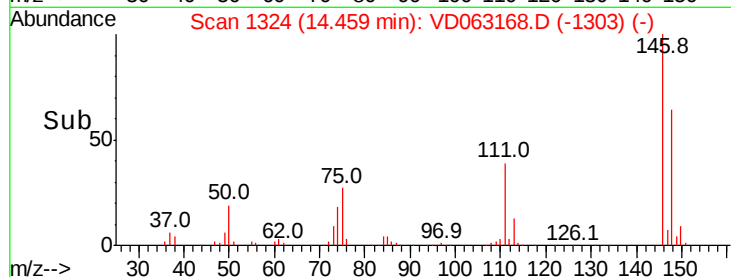
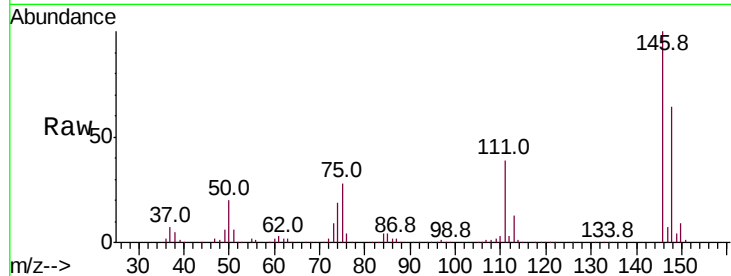
#87
 1,3-Dichlorobenzene
 Concen: 51.723 ug/l
 RT: 14.46 min Scan# 1324
 Delta R.T. 0.00 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.2	18.6	55.6
148	63.6	32.0	96.0

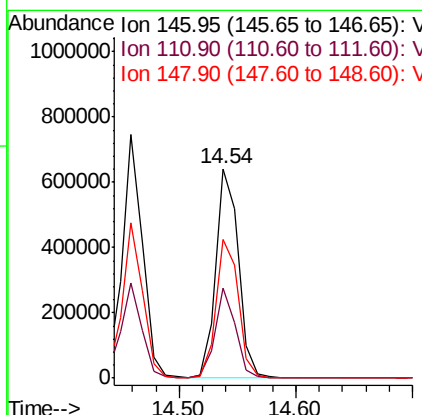
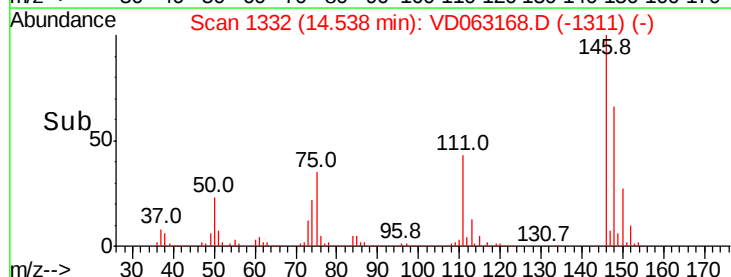
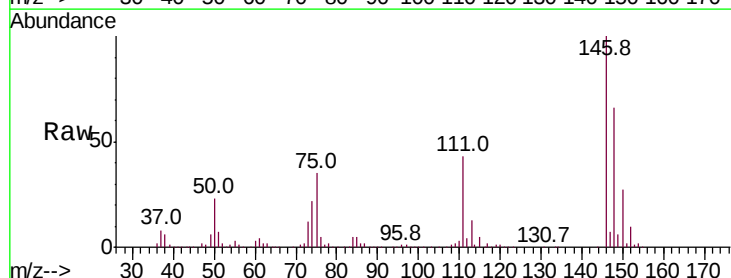
Manual Integrations
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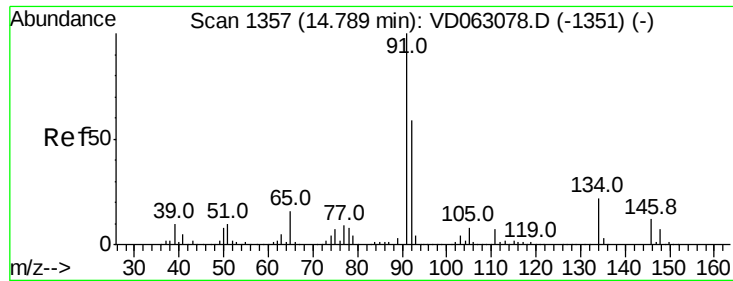
MMDadoda
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#88
 1,4-Dichlorobenzene
 Concen: 50.497 ug/l
 RT: 14.54 min Scan# 1332
 Delta R.T. 0.00 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.0	17.0	51.0
148	66.4	32.0	96.2





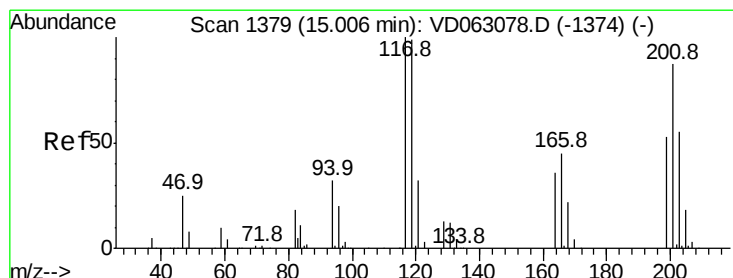
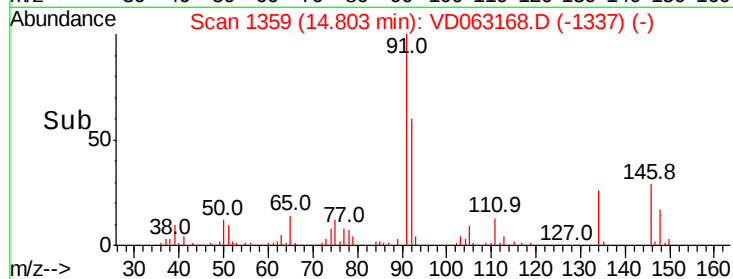
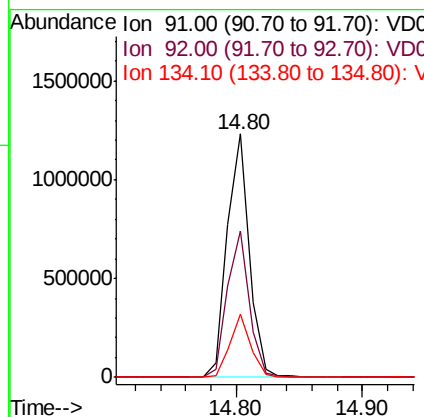
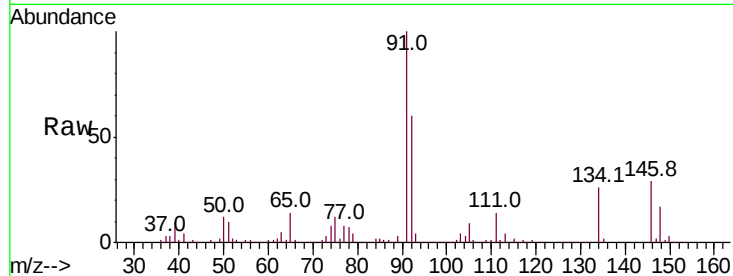
#89
n-Butylbenzene
Concen: 47.131 ug/l
RT: 14.80 min Scan# 1359
Delta R.T. 0.01 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1493522
Ion Ratio Lower Upper
91 100
92 60.0 29.4 88.3
134 26.1 11.3 33.8

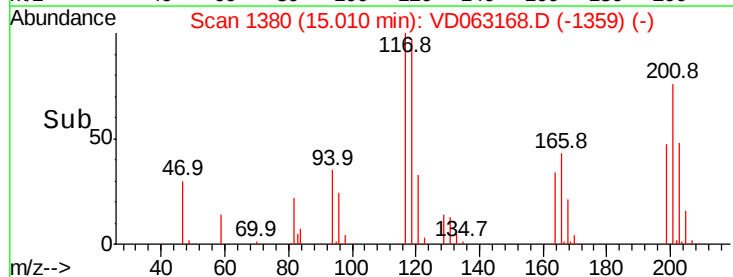
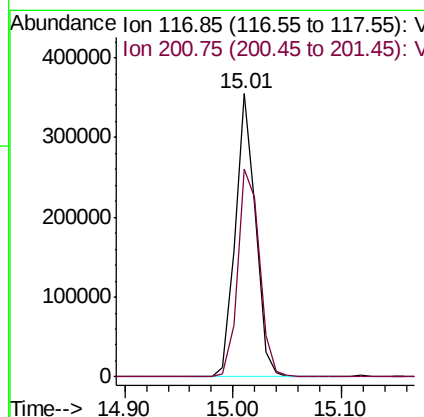
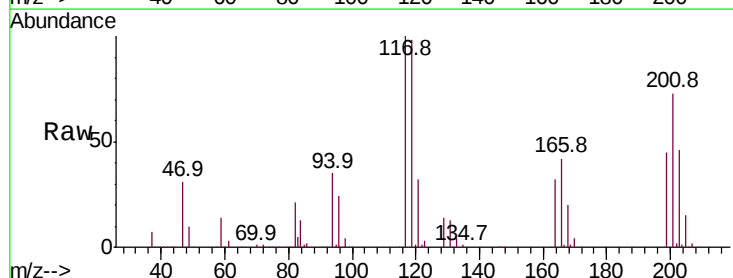
Manual Integrations
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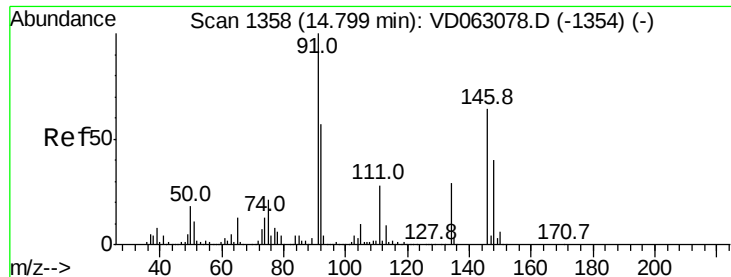
MMDadoda
7/23/2019 10:40:12 AM



#90
Hexachloroethane
Concen: 50.300 ug/l
RT: 15.01 min Scan# 1380
Delta R.T. 0.00 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion: 117 Resp: 462294
Ion Ratio Lower Upper
117 100
201 73.2 43.4 130.1





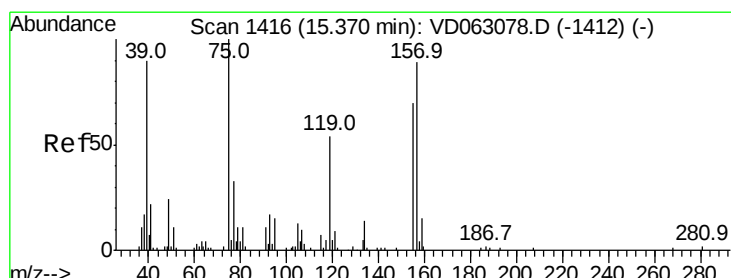
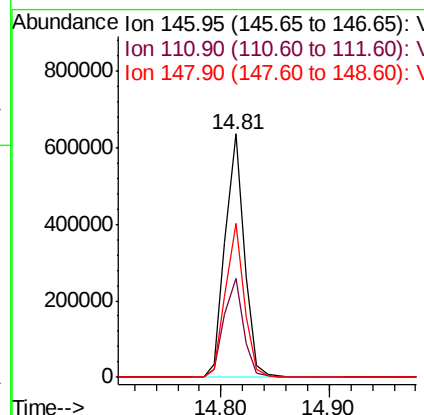
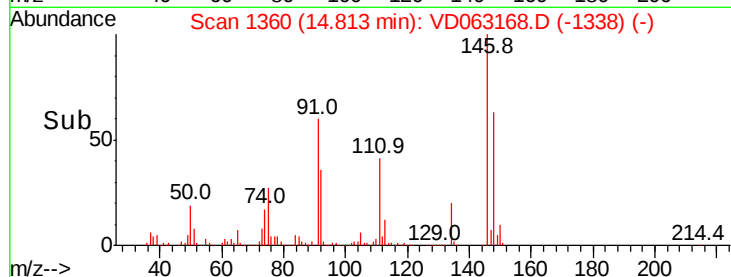
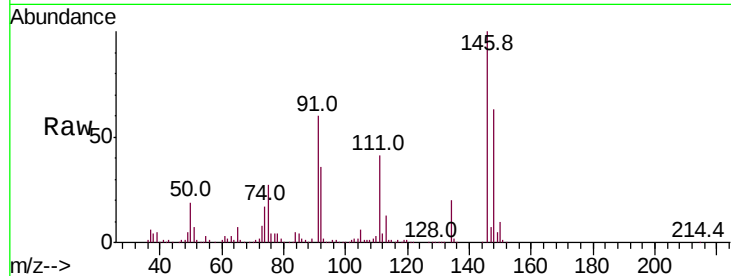
#91
 1,2-Dichlorobenzene
 Concen: 49.541 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. 0.01 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.7	21.9	65.5
148	63.1	31.5	94.5

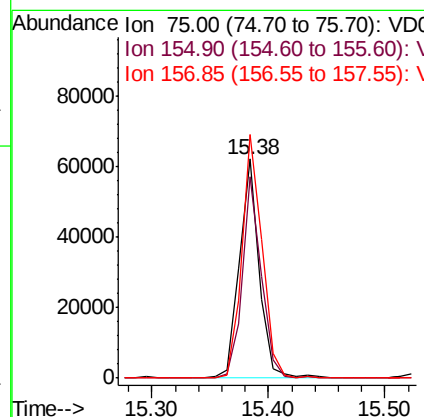
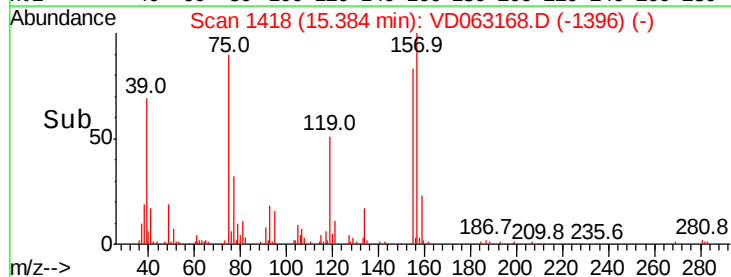
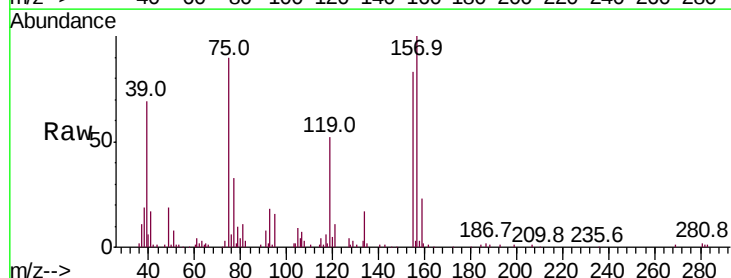
Manual Integrations
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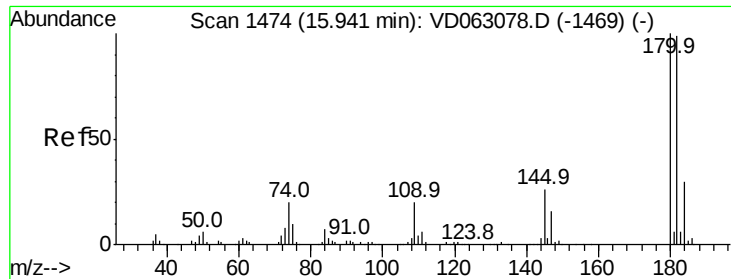
MMDadoda
 7/23/2019 10:40:12 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 59.645 ug/l
 RT: 15.38 min Scan# 1418
 Delta R.T. 0.01 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Tgt Ion	Ratio	Lower	Upper
75	100		
155	91.8	34.8	104.3
157	111.1	44.7	134.1





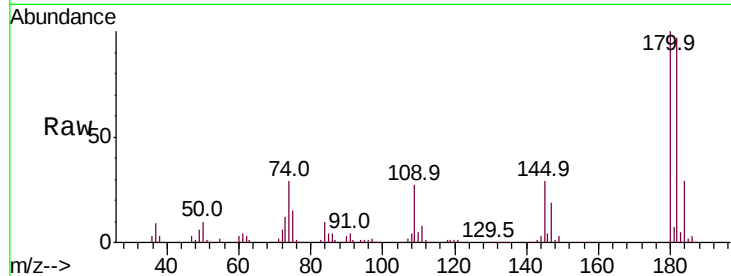
#93
 1,2,4-Trichlorobenzene
 Concen: 53.028 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

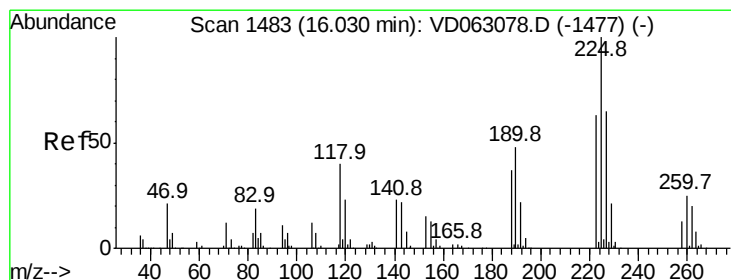
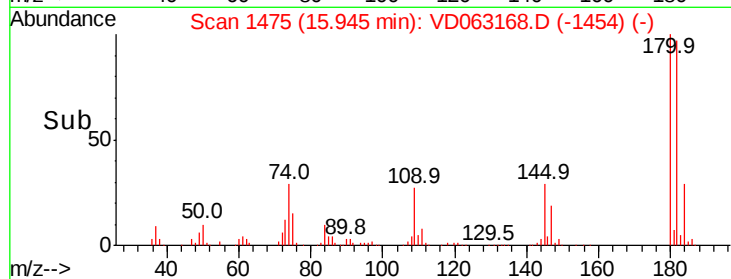
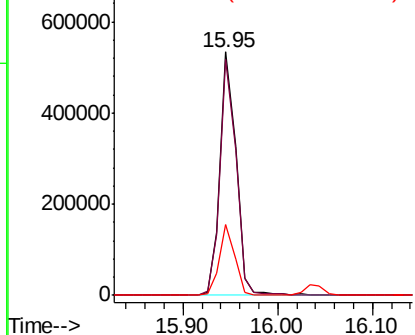
Tot Ion	Ratio	Resp	Lower	Upper
180	100	632373		
182	97.1	49.5	148.3	
145	29.3	12.8	38.4	

Manual Integrations
 APPROVED

MMDadoda
 7/23/2019 10:40:12 AM

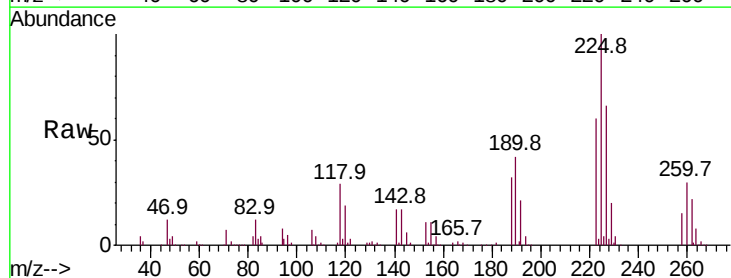


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

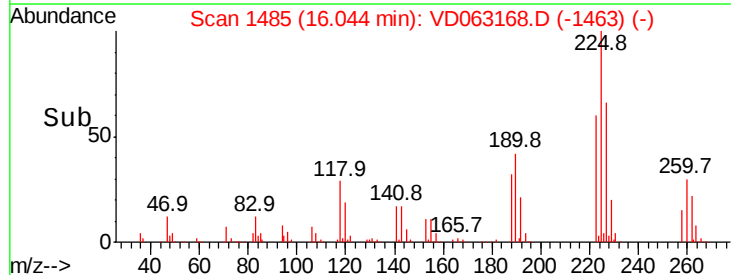
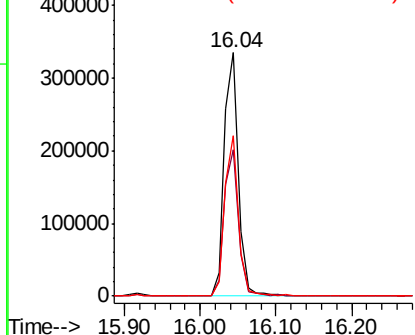


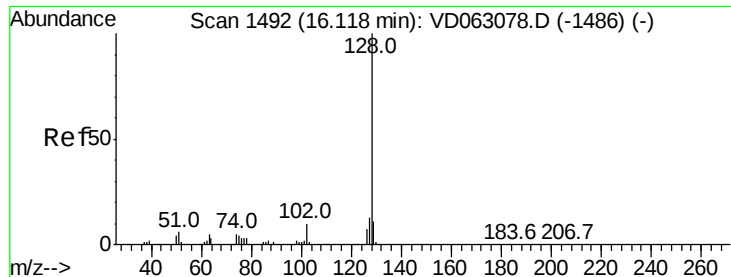
#94
 Hexachlorobutadiene
 Concen: 49.781 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. 0.01 min
 Lab File: VD063168.D
 Acq: 22 Jul 2019 10:53

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	437578		
223	60.3	31.4	94.2	
227	65.8	32.6	97.8	



Abundance Ion 224.75 (224.45 to 225.45): V
 Ion 222.75 (222.45 to 223.45): V
 Ion 226.75 (226.45 to 227.45): V





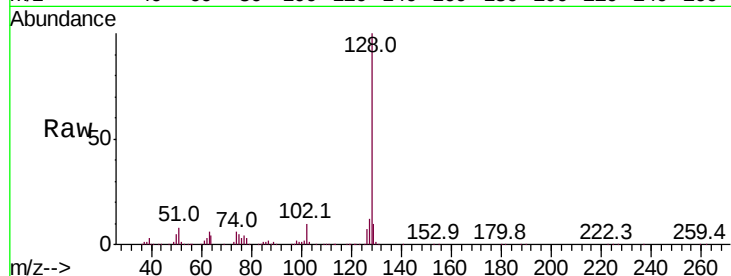
#95
Naphthalene
Concen: 56.763 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. 0.00 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.7	16.1
129	10.4	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
7/23/2019 10:40:12 AM

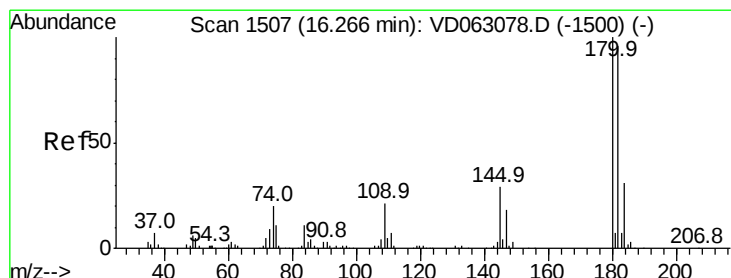
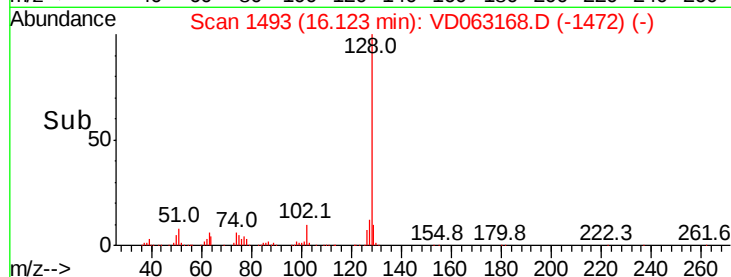
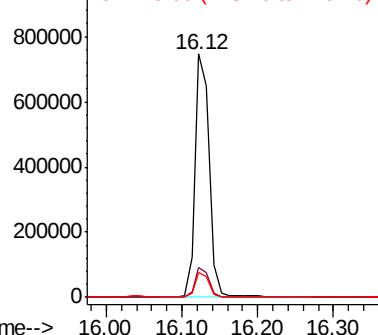


Abundance

Ion 128.00 (127.70 to 128.70): V

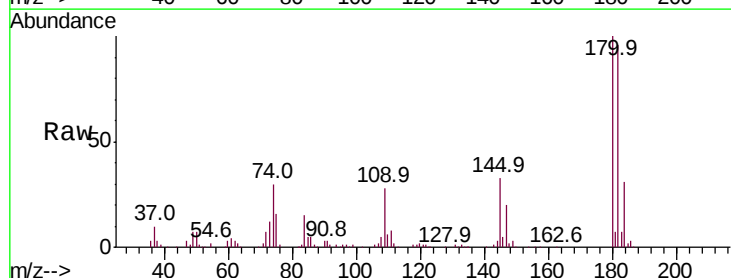
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 54.050 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. 0.00 min
Lab File: VD063168.D
Acq: 22 Jul 2019 10:53

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.5	47.9	143.6
145	33.1	14.4	43.4



Abundance

Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

