

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD022420\
 Data File : VD065299.D
 Acq On : 24 Feb 2020 17:21
 Operator : VA/SY
 Sample : L1635-12MS
 Misc : 6.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleID :
 LIED-TS001-01MS

Manual Integrations
 APPROVED

MMDadoda
 2/25/2020 5:15:48 PM

Quant Time: Feb 25 02:52:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D021820S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:26:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	361771	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	547394	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	461639	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	177356	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.34	65	162226	49.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.70%	
35) Dibromofluoromethane	7.92	113	172498	51.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.36%	
50) Toluene-d8	10.34	98	628966	49.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.58%	
62) 4-Bromofluorobenzene	12.64	95	170488	42.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.36%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.99	85	156555	51.595	ug/l	100
3) Chloromethane	2.21	50	185176	47.946	ug/l	99
4) Vinyl Chloride	2.35	62	186502	47.489	ug/l	96
5) Bromomethane	2.77	94	112386	47.330	ug/l	97
6) Chloroethane	2.93	64	117070	48.836	ug/l	99
7) Trichlorofluoromethane	3.27	101	274334	48.791	ug/l	99
8) Diethyl Ether	3.70	74	86105	50.733	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	4.09	101	161894	45.595	ug/l	99
10) Methyl Iodide	4.30	142	187187	50.774	ug/l	99
11) Tert butyl alcohol	5.24	59	39935	205.345	ug/l	99
12) 1,1-Dichloroethene	4.06	96	165941	49.473	ug/l	99
13) Acrolein	3.93	56	21742	70.234	ug/l	92
14) Allyl chloride	4.71	41	273057	50.131	ug/l	98
15) Acrylonitrile	5.43	53	177267	235.912	ug/l	99
16) Acetone	4.16	43	131861	165.745	ug/l	96
17) Carbon Disulfide	4.40	76	523528	46.556	ug/l	98
18) Methyl Acetate	4.73	43	314232	175.618	ug/l	97
19) Methyl tert-butyl Ether	5.49	73	355873	50.878	ug/l	96
20) Methylene Chloride	4.96	84	198792	56.752	ug/l	98
21) trans-1,2-Dichloroethene	5.47	96	189765	49.767	ug/l	98
22) Diisopropyl ether	6.37	45	510024	48.572	ug/l	95
23) Vinyl Acetate	6.37	43	295968	51.128	ug/l #	73
24) 1,1-Dichloroethane	6.27	63	326971	50.203	ug/l	99
25) 2-Butanone	7.23	43	203008	201.684	ug/l	99
26) 2,2-Dichloropropane	7.21	77	269874	47.758	ug/l	100
27) cis-1,2-Dichloroethene	7.22	96	198883	49.241	ug/l	99
28) Bromochloromethane	7.55	49	132710	54.923	ug/l	97
29) Tetrahydrofuran	7.57	42	138097	234.154	ug/l	100
30) Chloroform	7.71	83	331397	50.505	ug/l	100
31) Cyclohexane	7.98	56	247563	38.687	ug/l	98
32) 1,1,1-Trichloroethane	7.91	97	283295	48.255	ug/l	99
36) 1,1-Dichloropropene	8.11	75	244830	45.967	ug/l	100
37) Ethyl Acetate	7.30	43	54821	24.621	ug/l #	80
38) Carbon Tetrachloride	8.10	117	247641	45.674	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	196144	31.325	ug/l	99
40) Benzene	8.36	78	734789	48.876	ug/l	97
41) Methacrylonitrile	7.53	41	54909	42.710	ug/l	99
42) 1,2-Dichloroethane	8.43	62	198792	48.099	ug/l	100
43) Isopropyl Acetate	8.46	43	127720	31.544	ug/l #	91
44) Trichloroethene	9.11	130	192946	46.300	ug/l	93
45) 1,2-Dichloropropane	9.39	63	187134	50.059	ug/l	99
46) Dibromomethane	9.48	93	91929	47.795	ug/l	98
47) Bromodichloromethane	9.67	83	243980	48.133	ug/l	98
48) Methyl methacrylate	9.46	41	123995	66.252	ug/l	98
49) 1,4-Dioxane	9.47	88	20436	905.909	ug/l	97
51) 4-Methyl-2-Pentanone	10.23	43	468409	227.767	ug/l	99
52) Toluene	10.41	92	447379	48.077	ug/l	98
53) t-1,3-Dichloropropene	10.63	75	223258	47.518	ug/l	96
54) cis-1,3-Dichloropropene	10.10	75	274942	48.461	ug/l	99
55) 1,1,2-Trichloroethane	10.81	97	129452	47.818	ug/l	99
56) Ethyl methacrylate	10.67	69	86647	27.730	ug/l	94
57) 1,3-Dichloropropane	10.95	76	224048	48.626	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.95	63	220447	223.775	ug/l	99
59) 2-Hexanone	10.99	43	303276	206.010	ug/l	96
60) Dibromochloromethane	11.14	129	165043	47.632	ug/l	100
61) 1,2-Dibromoethane	11.26	107	121245	47.302	ug/l	99
64) Tetrachloroethene	10.88	164	147917	45.178	ug/l	94
65) Chlorobenzene	11.67	112	434094	46.858	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.75	131	172201	49.811	ug/l	99
67) Ethyl Benzene	11.75	91	759522	46.812	ug/l	99
68) m/p-Xylenes	11.86	106	589179	94.914	ug/l	99
69) o-Xylene	12.19	106	267175	48.582	ug/l	99
70) Styrene	12.20	104	456233	46.725	ug/l	99
71) Bromoform	12.37	173	91330	47.609	ug/l #	100
73) Isopropylbenzene	12.48	105	636095	54.174	ug/l	99
74) N-amyl acetate	12.30	43	25693	9.848	ug/l #	92
75) 1,1,2,2-Tetrachloroethane	12.74	83	128226	60.509	ug/l	100
76) 1,2,3-Trichloropropane	12.80	75	86672m	57.437	ug/l	
77) Bromobenzene	12.77	156	169217	58.037	ug/l	100
78) n-propylbenzene	12.83	91	698965	49.535	ug/l	99
79) 2-Chlorotoluene	12.91	91	411767	52.091	ug/l	99
80) 1,3,5-Trimethylbenzene	12.97	105	494099	51.091	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.54	75	40657	58.175	ug/l	94
82) 4-Chlorotoluene	13.01	91	430141	51.256	ug/l	99
83) tert-Butylbenzene	13.23	119	387953	47.863	ug/l	99
84) 1,2,4-Trimethylbenzene	13.28	105	495992	51.240	ug/l	99
85) sec-Butylbenzene	13.41	105	469474	40.196	ug/l	100
86) p-Isopropyltoluene	13.53	119	441993	41.382	ug/l	100
87) 1,3-Dichlorobenzene	13.53	146	255123	45.261	ug/l	98
88) 1,4-Dichlorobenzene	13.60	146	253494	45.567	ug/l	99
89) n-Butylbenzene	13.86	91	315564	32.062	ug/l	99
90) Hexachloroethane	14.12	117	87639	40.411	ug/l	100
91) 1,2-Dichlorobenzene	13.90	146	223480	46.175	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.51	75	16775	51.368	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.18	180	86916	27.455	ug/l	96
94) Hexachlorobutadiene	15.28	225	37128	18.282	ug/l	98
95) Naphthalene	15.41	128	184727	35.893	ug/l	100
96) 1,2,3-Trichlorobenzene	15.61	180	72167	26.101	ug/l	98

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

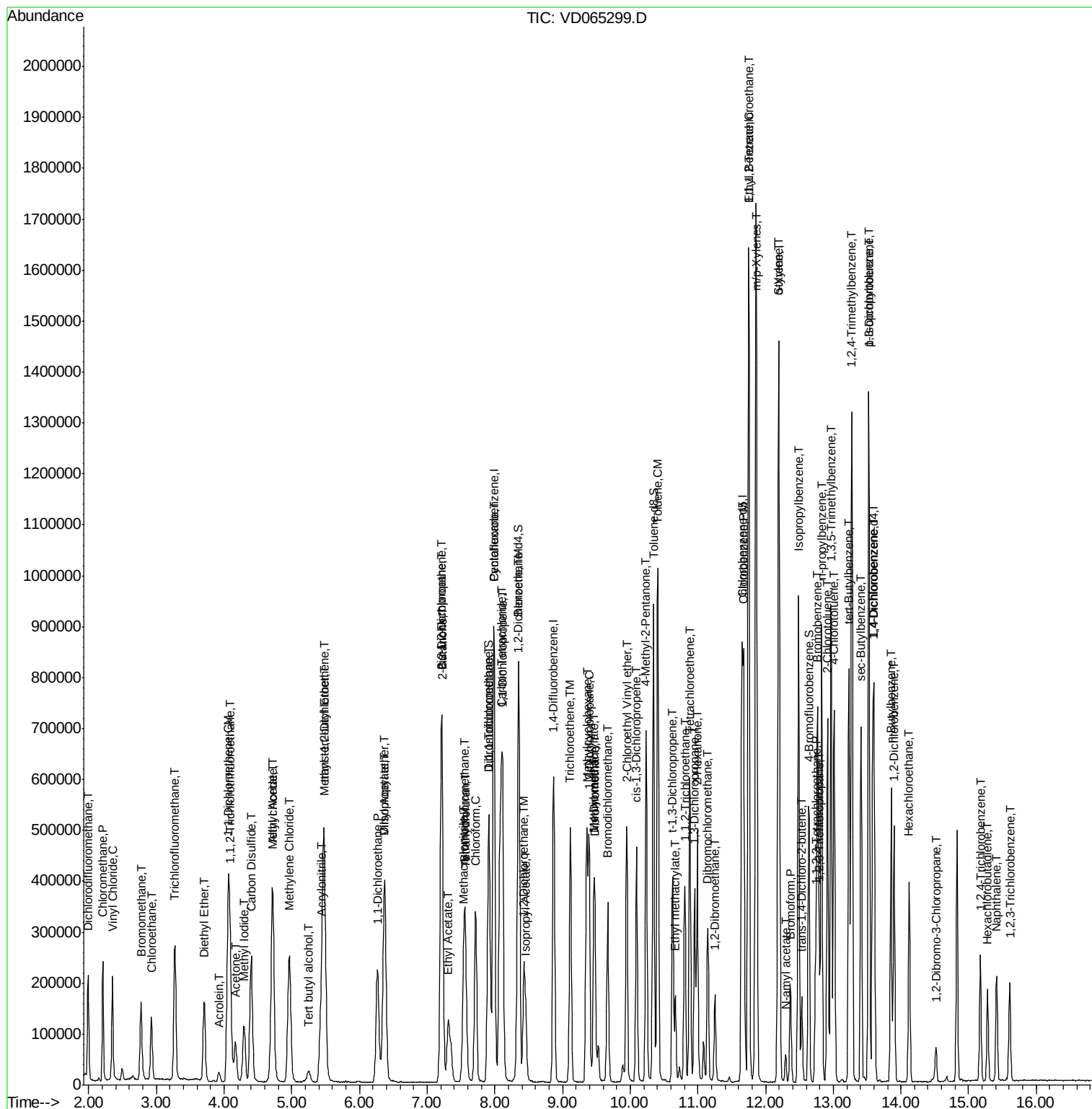
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD022420\
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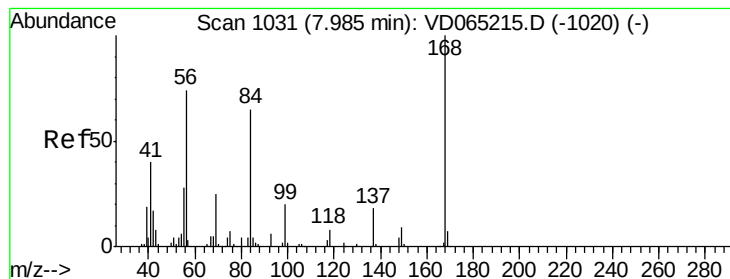
Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MS

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

Instrument :

MSVOA_D

ClientSampleId :

LIED-TS001-01MS

Tot Ion:168 Resp: 361771

Ion Ratio Lower Upper

168 100

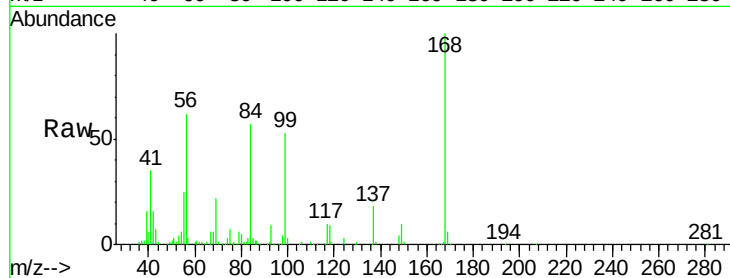
99 52.8 41.4 62.2

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

150000

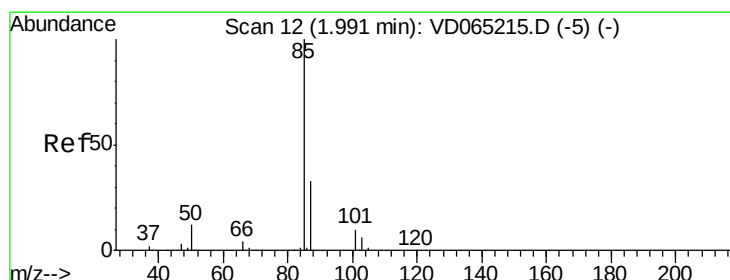
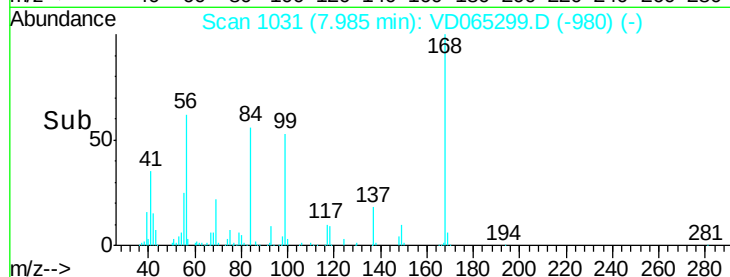
100000

50000

0

7.90 8.00 8.10 8.20

Time-->



#2

Dichlorodifluoromethane

Concen: 51.595 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD065299.D

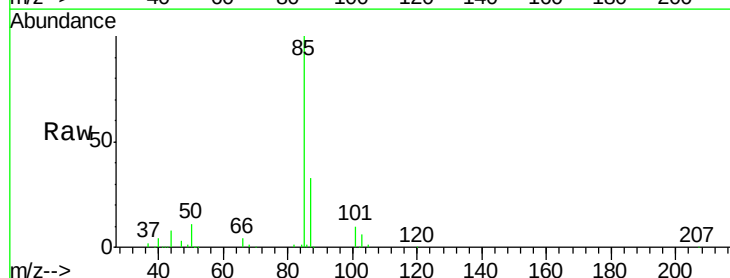
Acq: 24 Feb 2020 17:21

Tgt Ion: 85 Resp: 156555

Ion Ratio Lower Upper

85 100

87 32.9 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

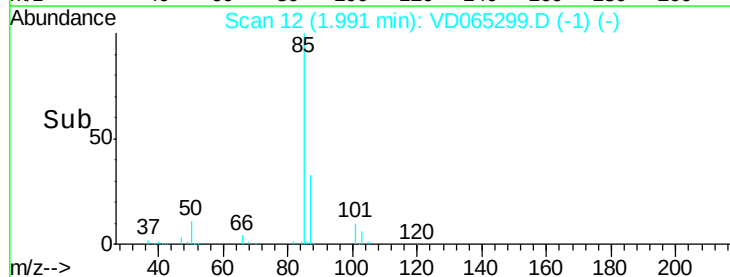
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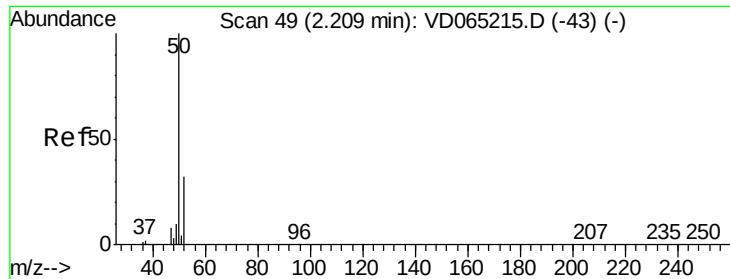
50000

0

1.90 2.00 2.10

Time-->





#3

Chloromethane

Concen: 47.946 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

Instrument :

MSVOA_D

ClientSampleId :

LIED-TS001-01MS

Tot Ion: 50 Resp: 185176

Ion Ratio Lower Upper

50 100

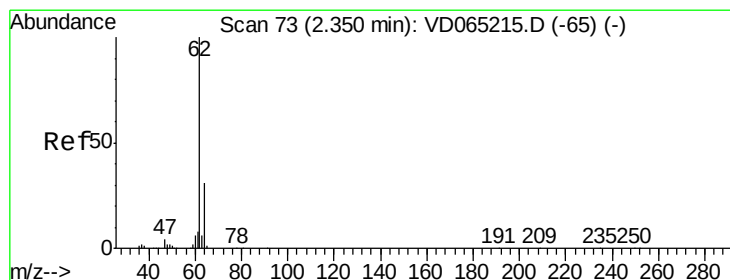
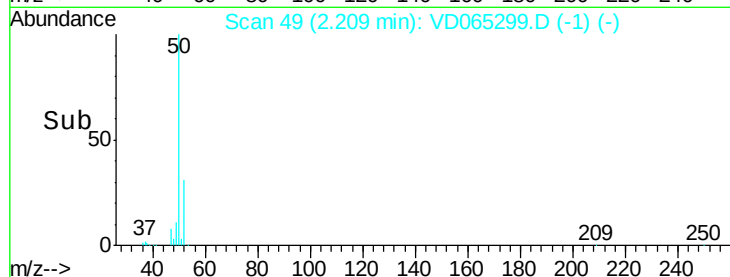
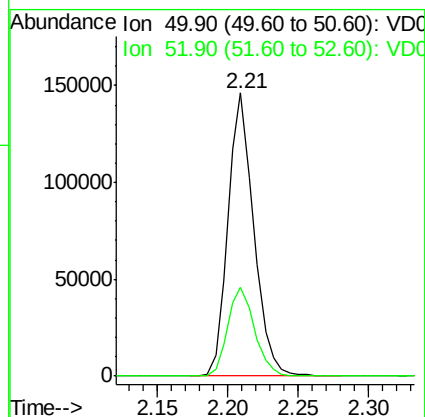
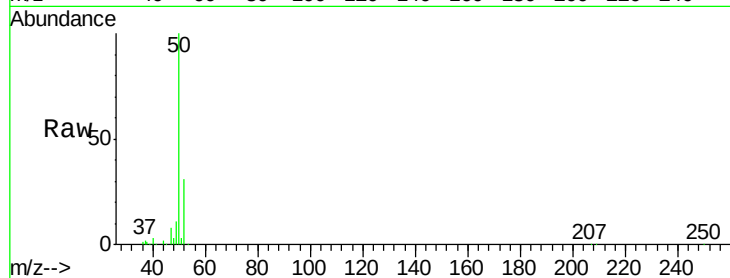
52 31.5 25.5 38.3

Manual Integrations

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2/25/2020 5:15:48 PM



#4

Vinyl Chloride

Concen: 47.489 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD065299.D

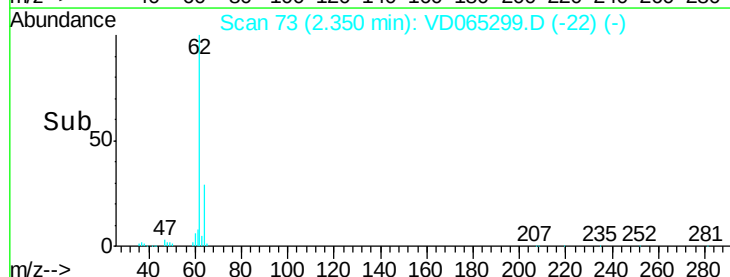
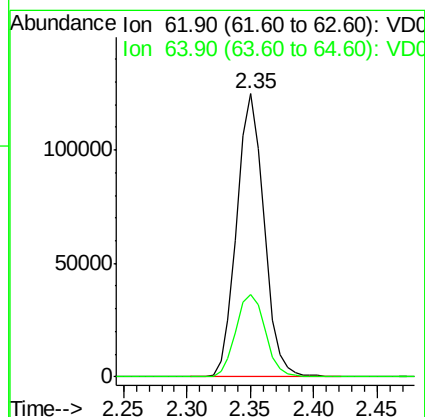
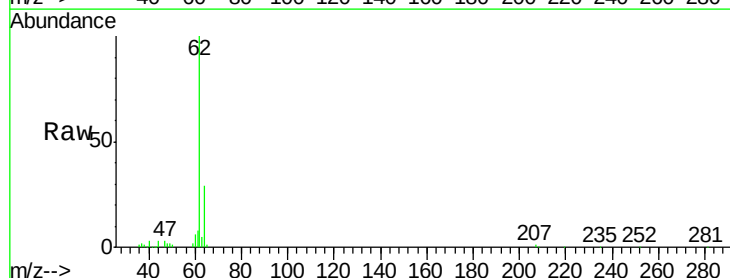
Acq: 24 Feb 2020 17:21

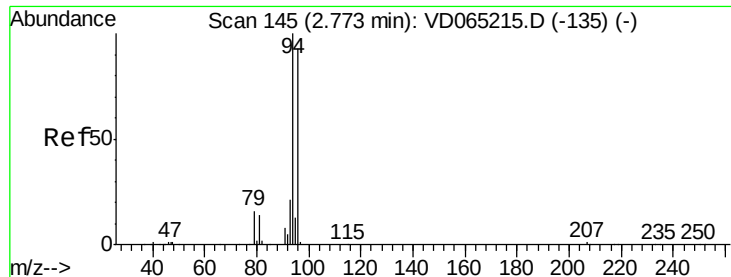
Tgt Ion: 62 Resp: 186502

Ion Ratio Lower Upper

62 100

64 29.3 25.0 37.6





#5

Bromomethane

Concen: 47.330 ug/l

RT: 2.77 min Scan# 145

Delta R.T. 0.00 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

Instrument :

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ClientSampleId :

LIED-TS001-01MS

Tot Ion: 94 Resp: 112386

Ion Ratio Lower Upper

94 100

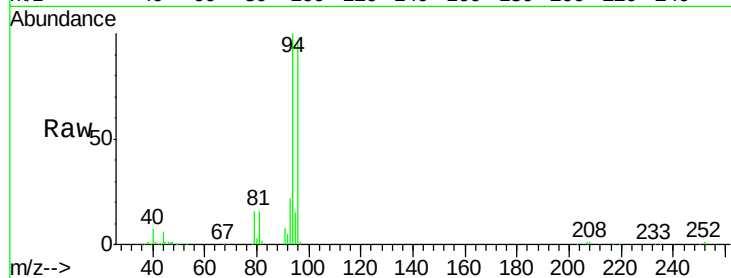
96 95.5 74.2 111.4

Manual Integrations

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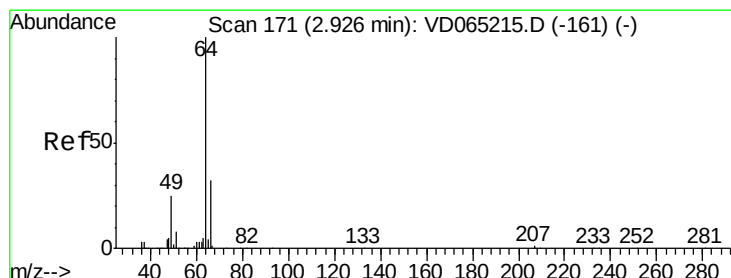
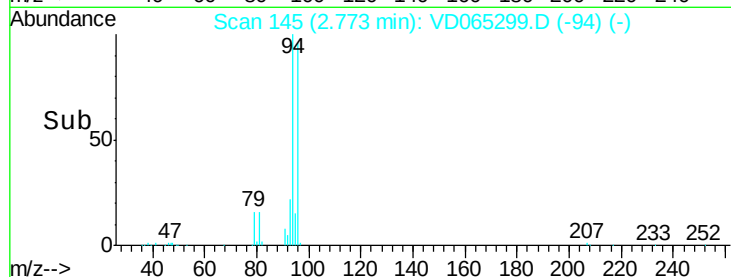
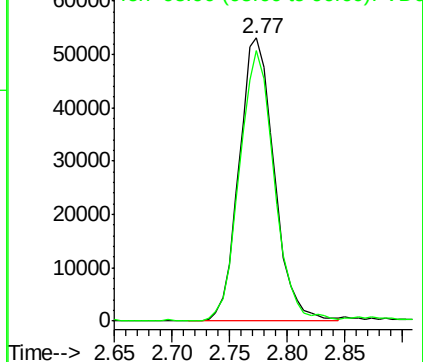
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Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 48.836 ug/l

RT: 2.93 min Scan# 171

Delta R.T. 0.00 min

Lab File: VD065299.D

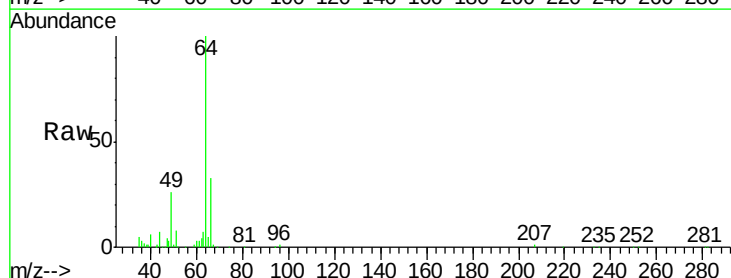
Acq: 24 Feb 2020 17:21

Tgt Ion: 64 Resp: 117070

Ion Ratio Lower Upper

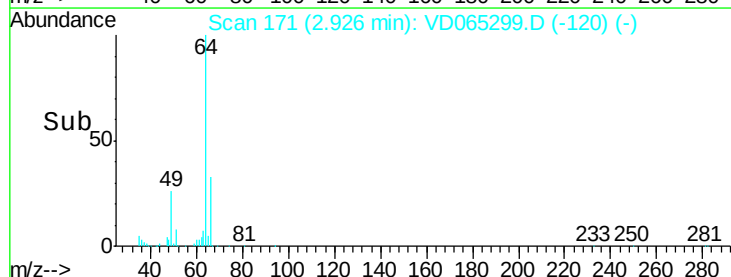
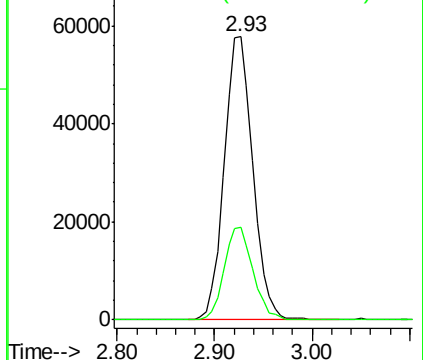
64 100

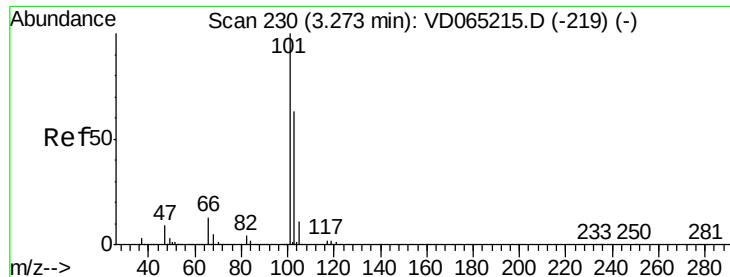
66 32.7 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

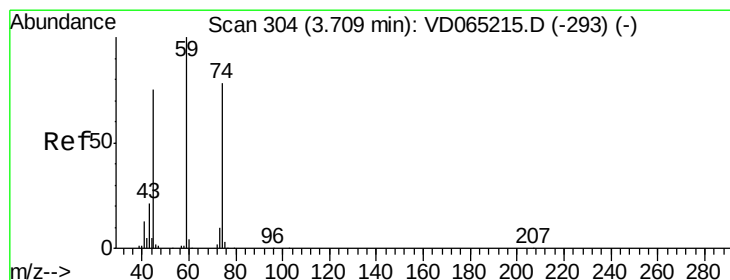
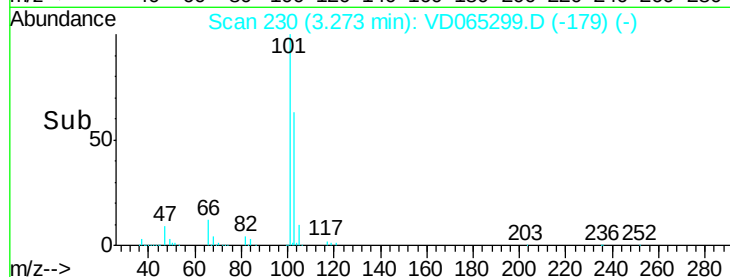
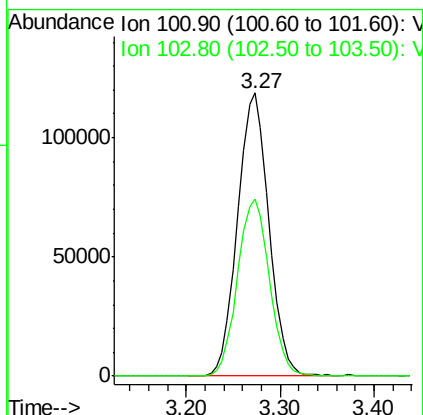
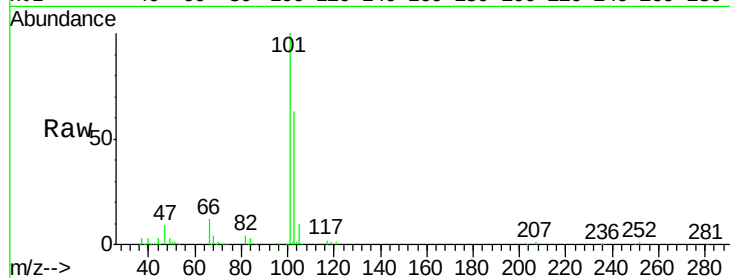
Trichlorofluoromethane
Concen: 48.791 ug/l
RT: 3.27 min Scan# 230
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

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Tot Ion	Ratio	Lower	Upper
101	100		
103	62.7	50.7	76.1

Manual Integrations
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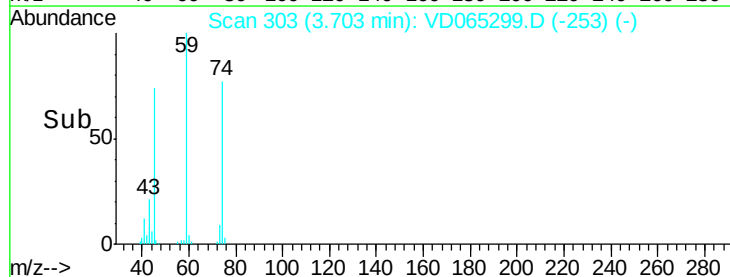
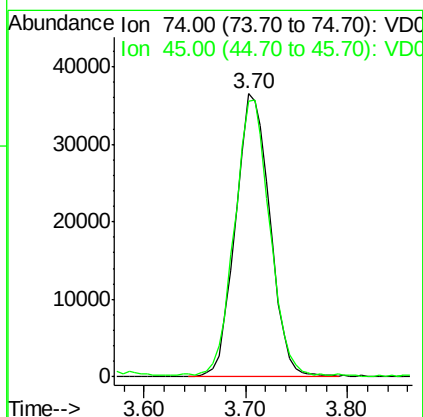
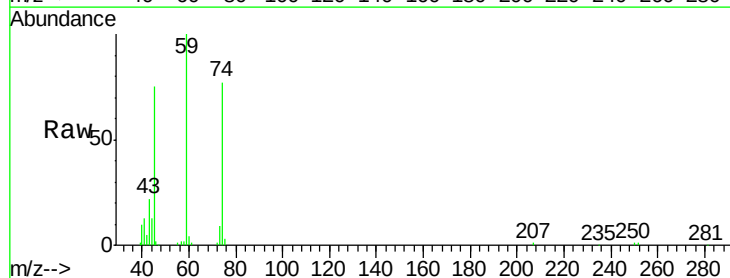
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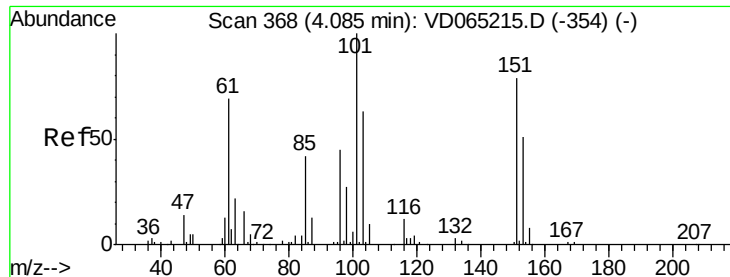


#8

Diethyl Ether
Concen: 50.733 ug/l
RT: 3.70 min Scan# 303
Delta R.T. -0.01 min
Lab File: VD065299.D
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Tgt Ion	Ratio	Lower	Upper
74	100		
45	99.0	50.0	149.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 45.595 ug/l

RT: 4.09 min Scan# 369

Delta R.T. 0.01 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

Instrument :

MSVOA_D

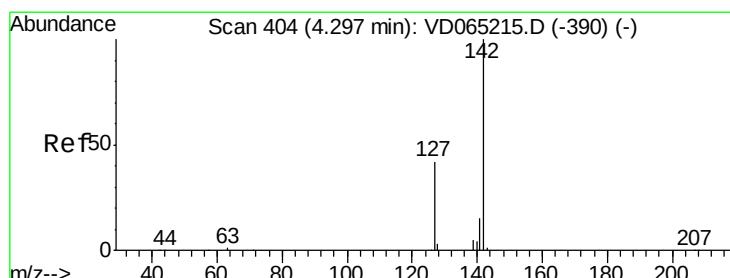
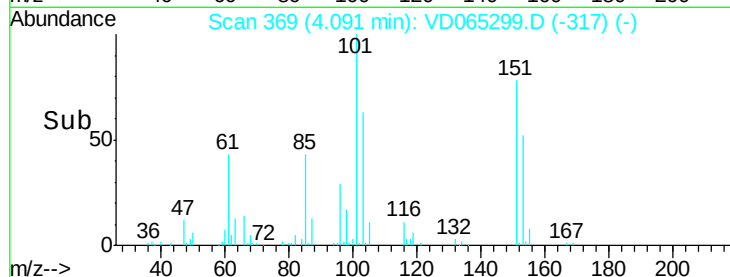
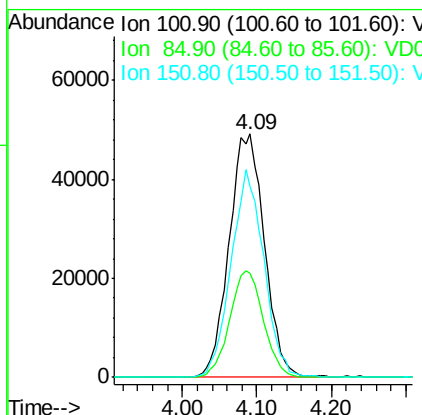
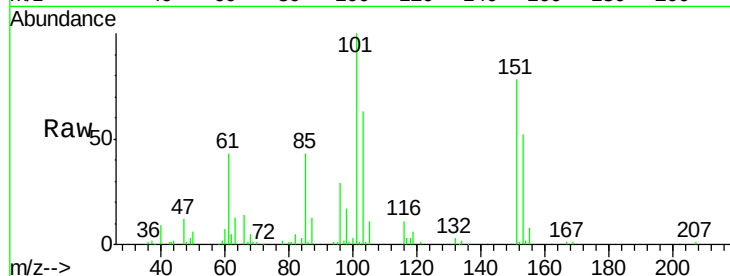
ClientSampleId :

LIED-TS001-01MS

Tot Ion:	101	Resp:	161894
Ion Ratio	Lower	Upper	
101	100		
85	41.7	34.2	51.2
151	78.9	63.5	95.3

Manual Integrations
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#10

Methyl Iodide

Concen: 50.774 ug/l

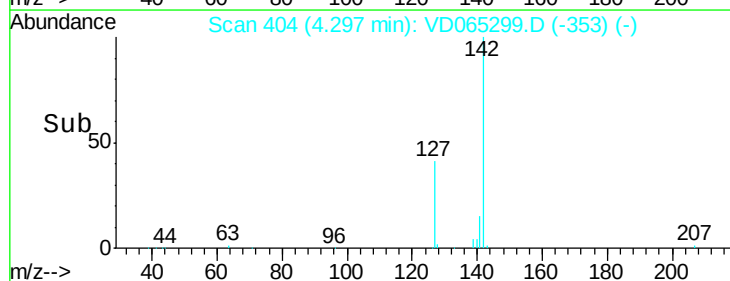
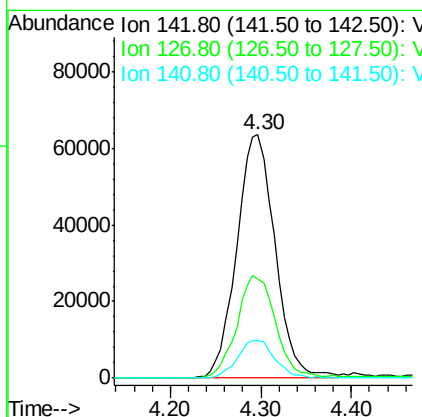
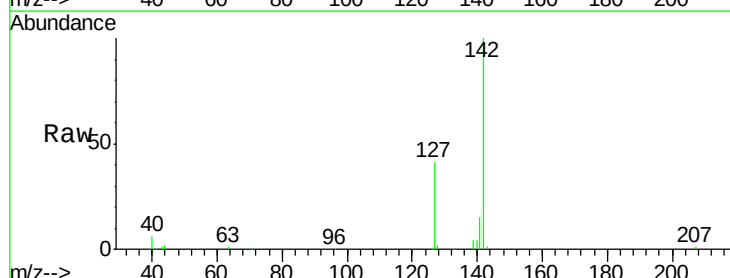
RT: 4.30 min Scan# 404

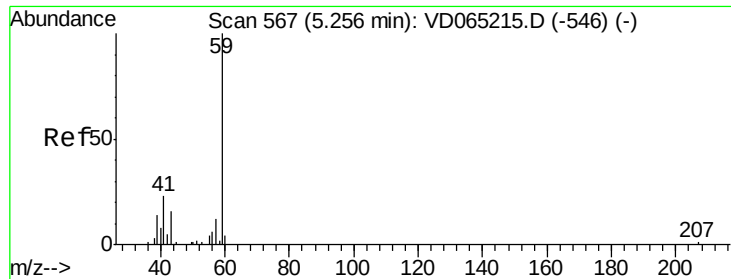
Delta R.T. 0.00 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

Tgt Ion:	142	Resp:	187187
Ion Ratio	Lower	Upper	
142	100		
127	43.1	33.8	50.8
141	15.0	11.7	17.5





#11

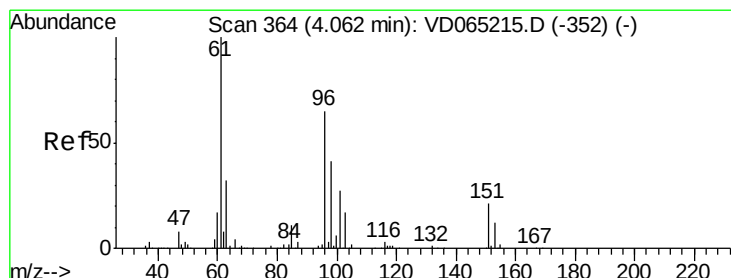
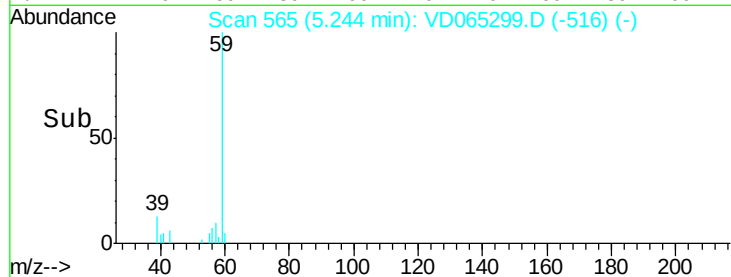
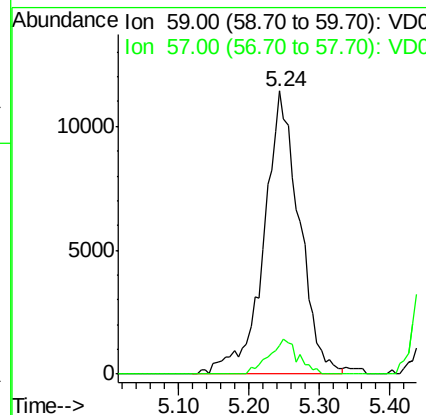
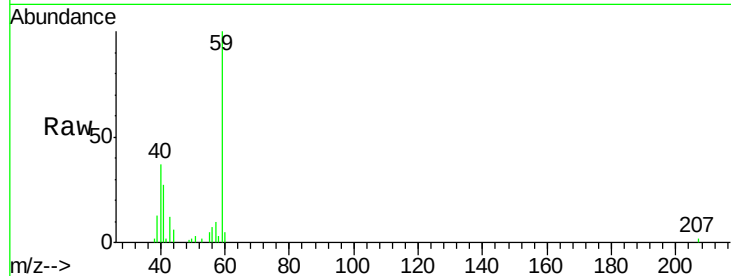
Tert butyl alcohol
 Concen: 205.345 ug/l
 RT: 5.24 min Scan# 565
 Delta R.T. -0.01 min
 Lab File: VD065299.D
 Acq: 24 Feb 2020 17:21

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-TS001-01MS

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.4	12.6

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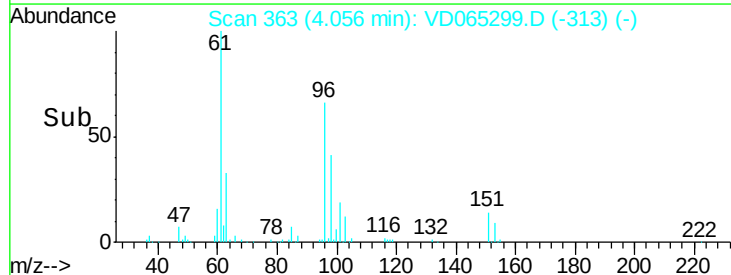
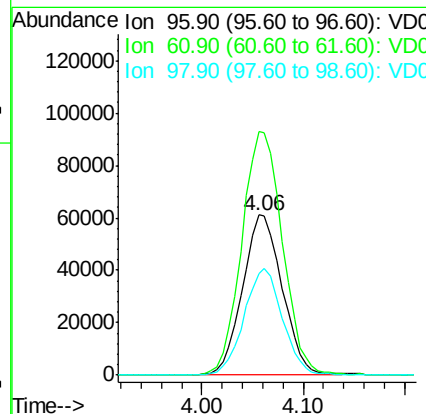
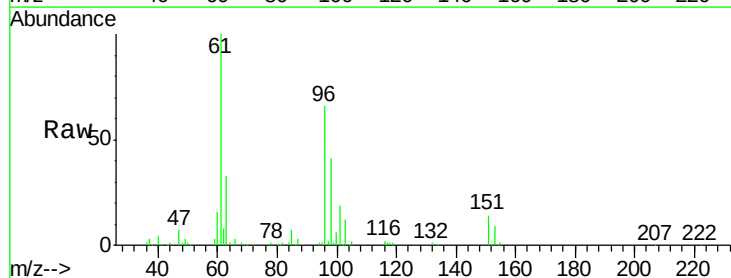
MMDadoda
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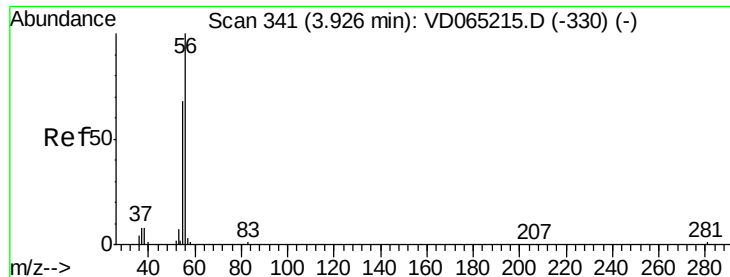


#12

1,1-Dichloroethene
 Concen: 49.473 ug/l
 RT: 4.06 min Scan# 363
 Delta R.T. -0.01 min
 Lab File: VD065299.D
 Acq: 24 Feb 2020 17:21

Tgt Ion	Ratio	Lower	Upper
96	100		
61	152.2	123.3	184.9
98	63.1	51.0	76.4





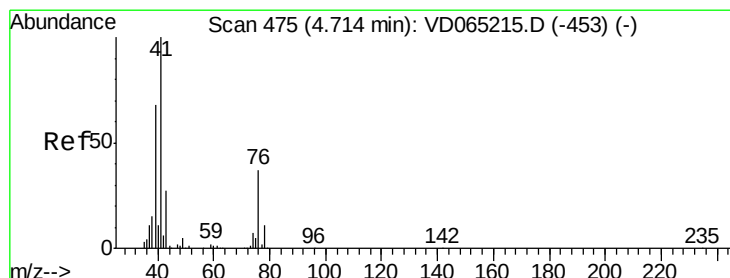
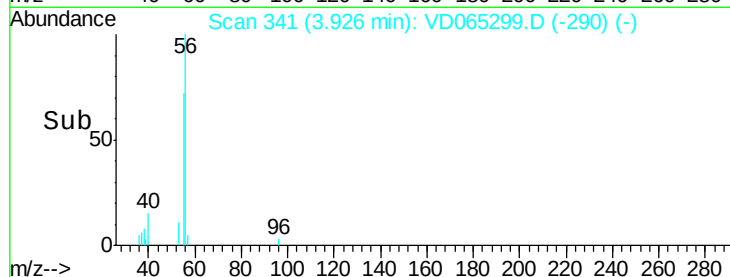
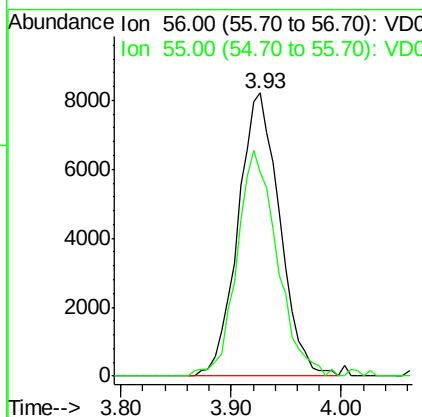
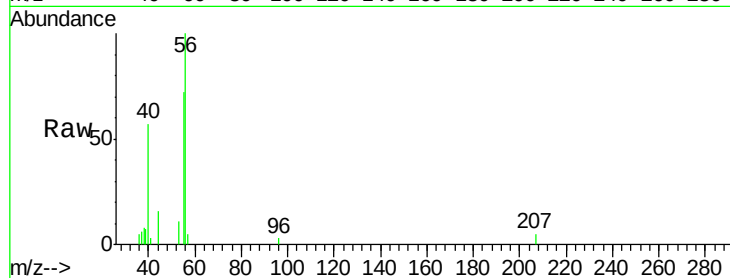
#13
Acrolein
Concen: 70.234 ug/l
RT: 3.93 min Scan# 341
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MS

Tot Ion: 56 Resp: 21742
Ion Ratio Lower Upper
56 100
55 77.1 56.6 85.0

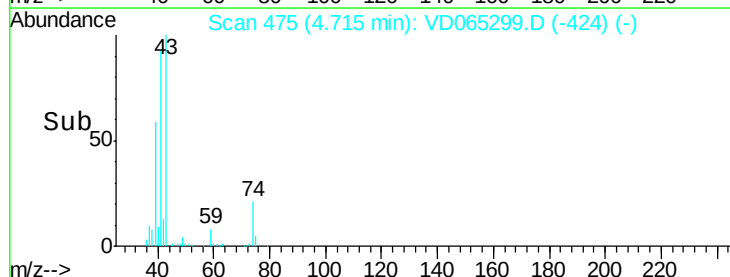
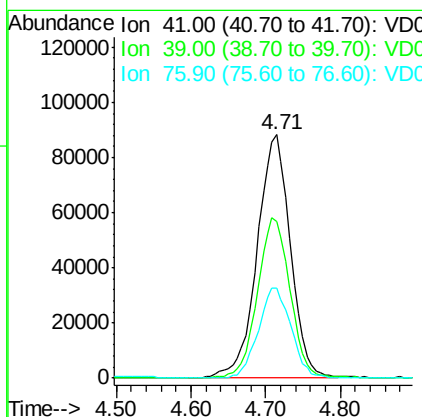
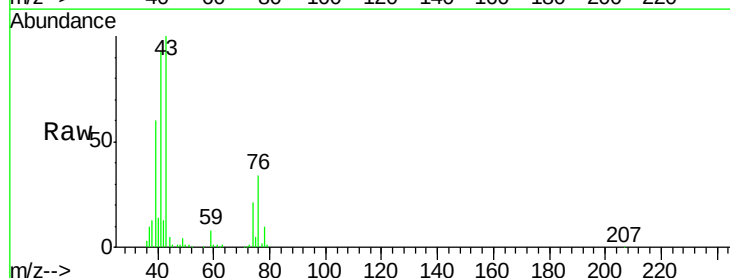
Manual Integrations
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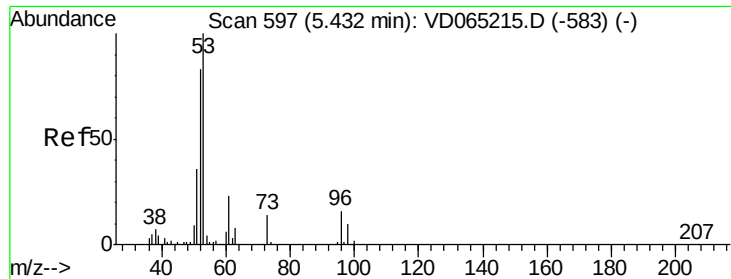
MMDadoda
2/25/2020 5:15:48 PM



#14
Allyl chloride
Concen: 50.131 ug/l
RT: 4.71 min Scan# 475
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Tgt Ion: 41 Resp: 273057
Ion Ratio Lower Upper
41 100
39 64.9 53.8 80.6
76 36.6 28.7 43.1





#15

Acrylonitrile

Concen: 235.912 ug/l

RT: 5.43 min Scan# 597

Delta R.T. 0.00 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

Instrument :

MSVOA_D

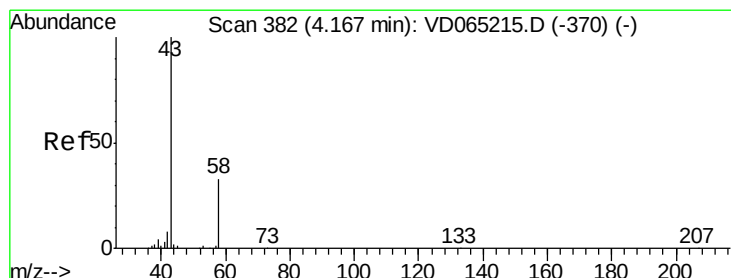
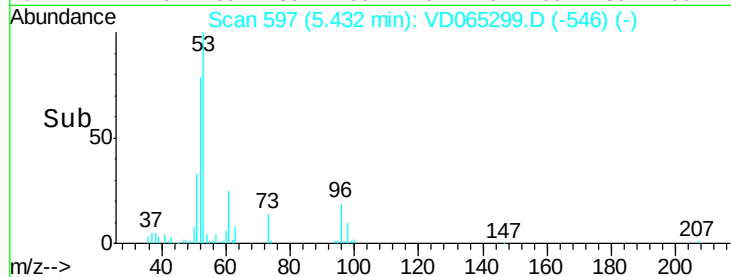
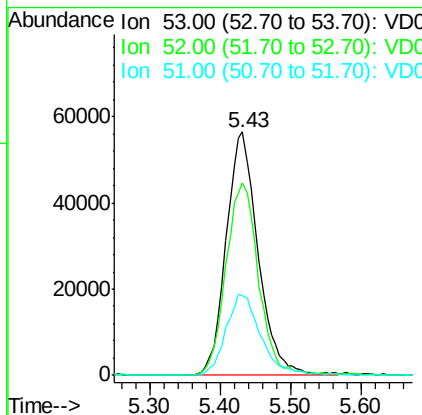
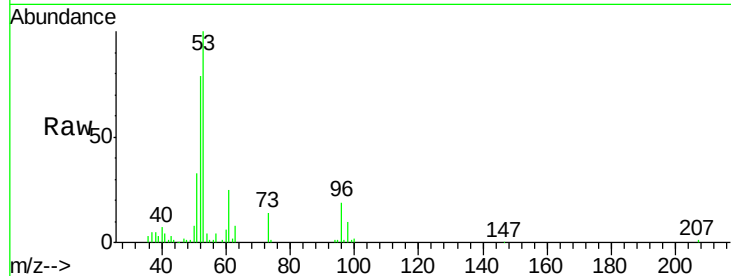
ClientSampleId :

LIED-TS001-01MS

Tot Ion:	53	Resp:	177267
Ion Ratio	Lower	Upper	
53	100		
52	80.8	65.4	98.2
51	36.1	29.5	44.3

Manual Integrations
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#16

Acetone

Concen: 165.745 ug/l

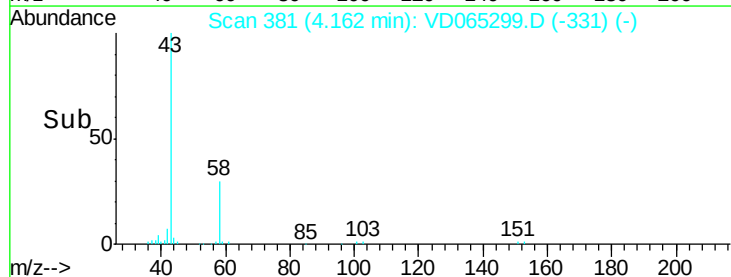
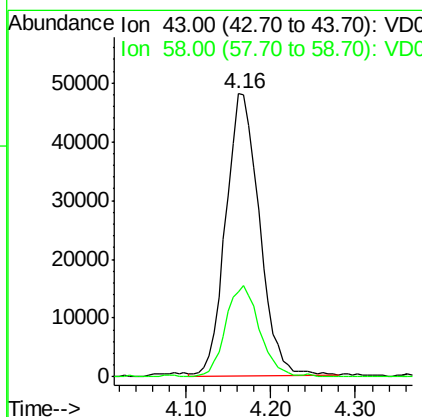
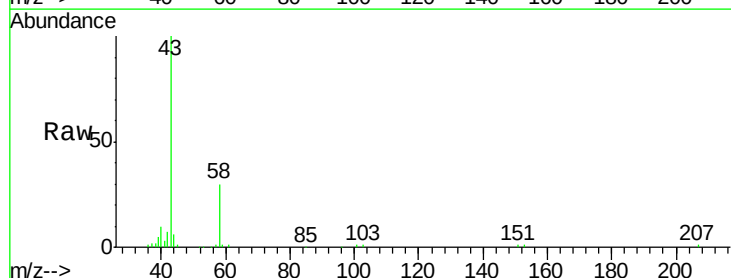
RT: 4.16 min Scan# 381

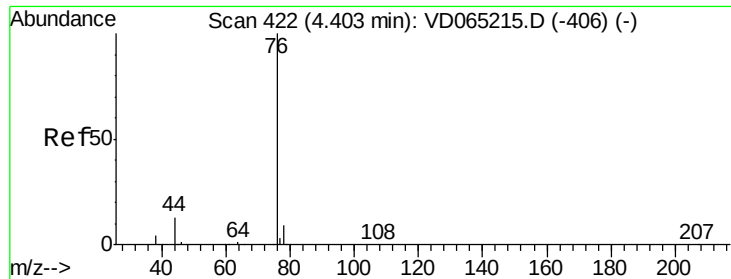
Delta R.T. -0.01 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

Tgt Ion:	43	Resp:	131861
Ion Ratio	Lower	Upper	
43	100		
58	30.4	26.2	39.2





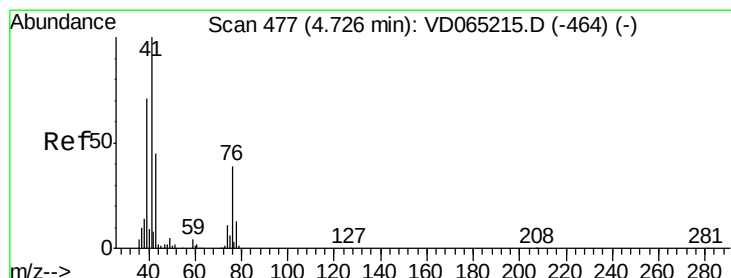
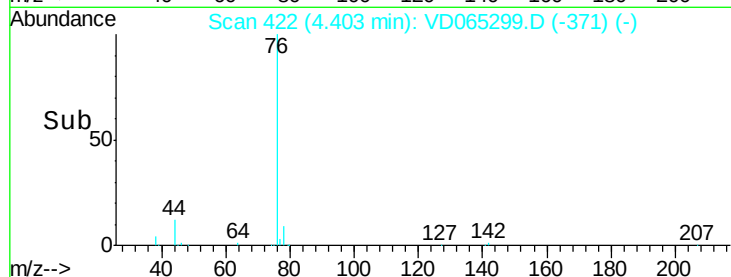
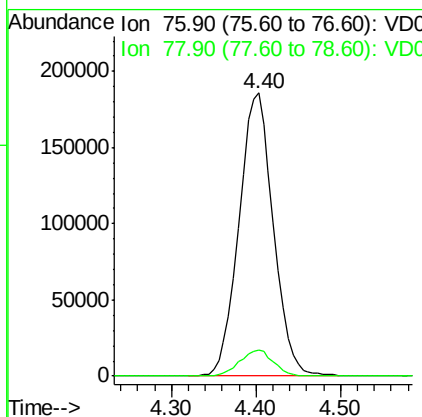
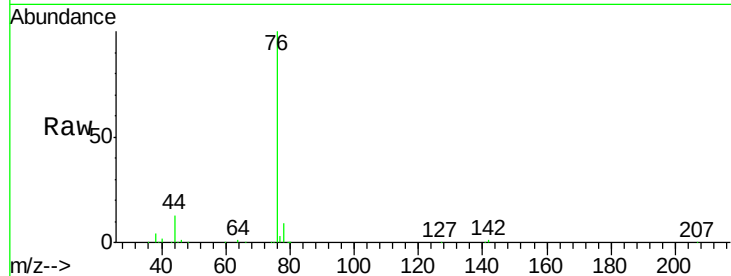
#17
Carbon Disulfide
Concen: 46.556 ug/l
RT: 4.40 min Scan# 422
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MS

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.0	10.6

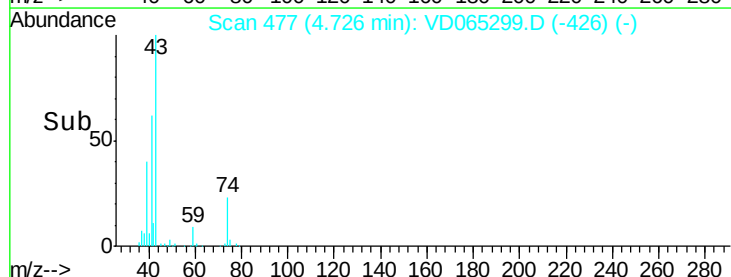
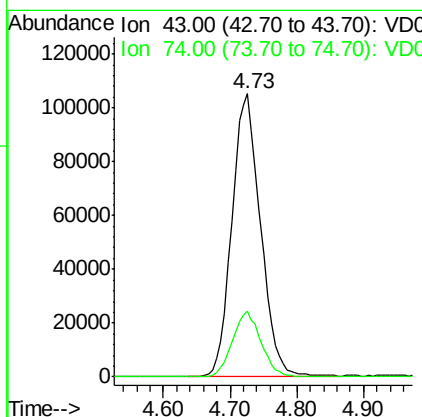
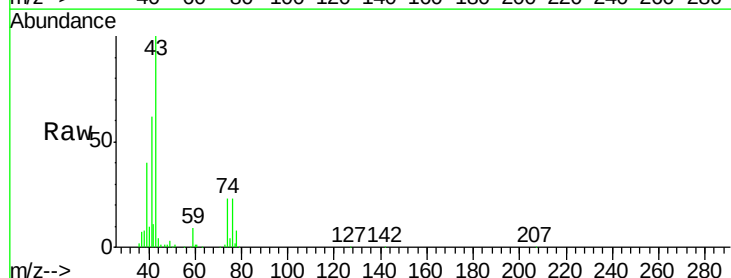
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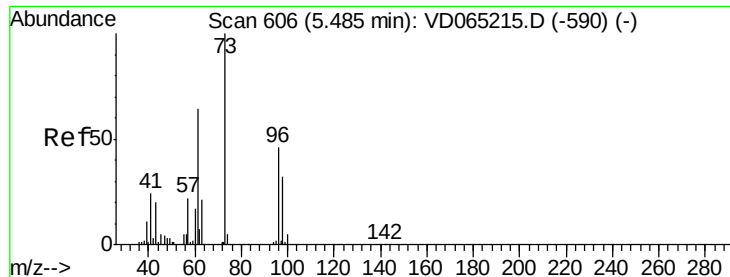
MMDadoda
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#18
Methyl Acetate
Concen: 175.618 ug/l
RT: 4.73 min Scan# 477
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.1	19.4	29.2





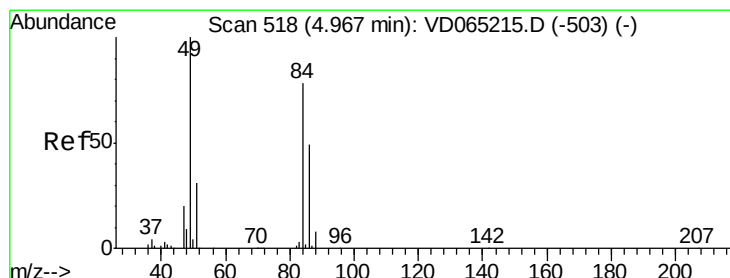
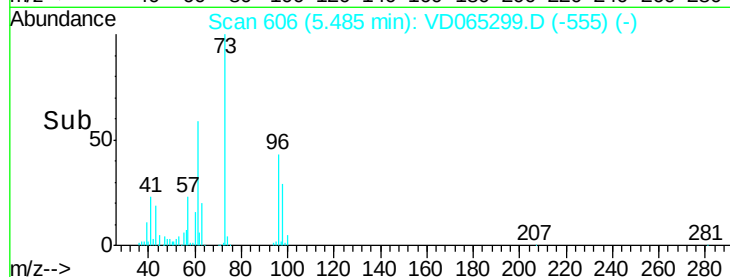
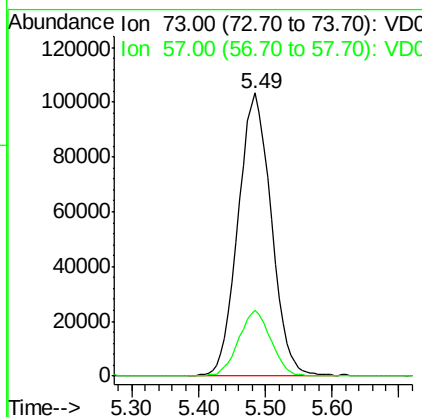
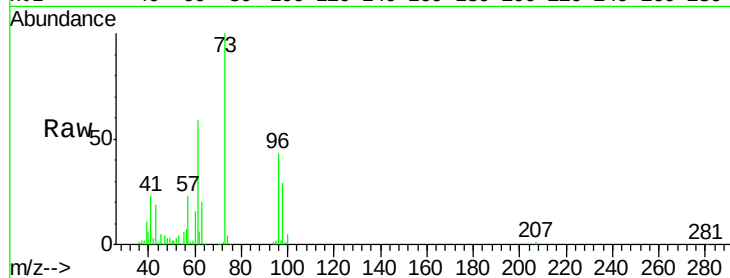
#19
Methyl tert-butyl Ether
Concen: 50.878 ug/l
RT: 5.49 min Scan# 606
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MS

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.3	17.3	25.9

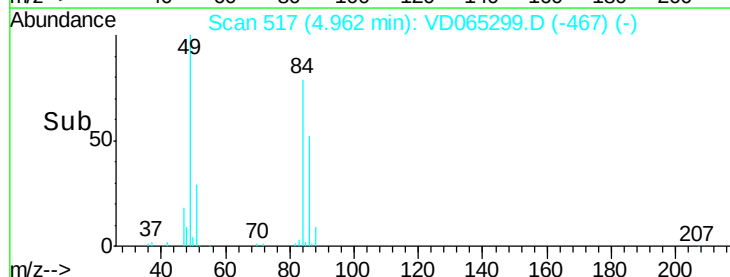
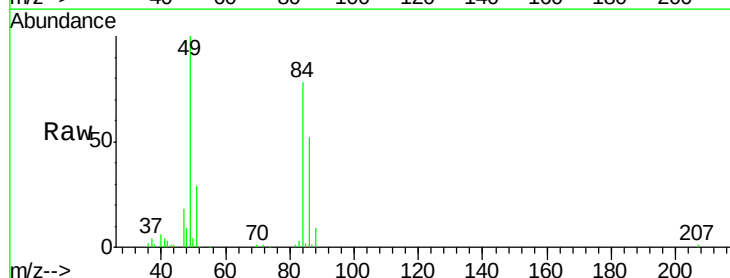
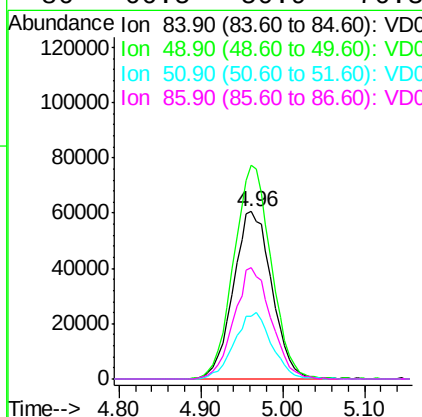
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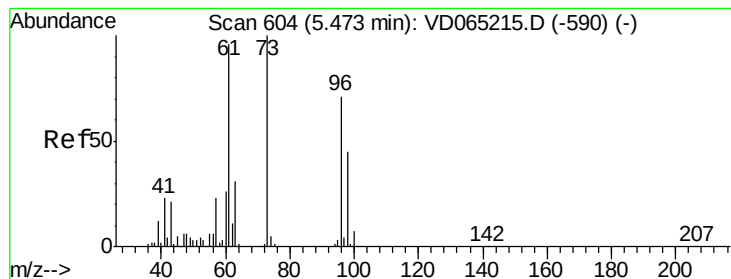
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#20
Methylene Chloride
Concen: 56.752 ug/l
RT: 4.96 min Scan# 517
Delta R.T. -0.01 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Tgt Ion	Ratio	Lower	Upper
84	100		
49	127.8	103.1	154.7
51	37.6	31.7	47.5
86	66.5	50.9	76.3





#21

trans-1,2-Dichloroethene

Concen: 49.767 ug/l

RT: 5.47 min Scan# 604

Delta R.T. 0.00 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

Instrument :

MSVOA_D

ClientSampleId :

LIED-TS001-01MS

Tot Ion: 96 Resp: 189765

Ion Ratio Lower Upper

96 100

61 137.0 108.3 162.5

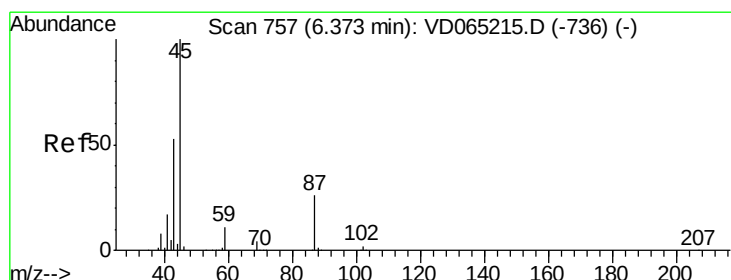
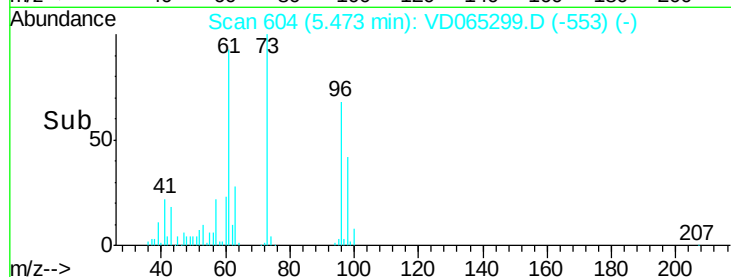
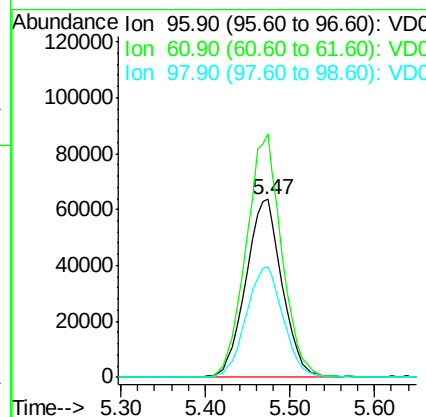
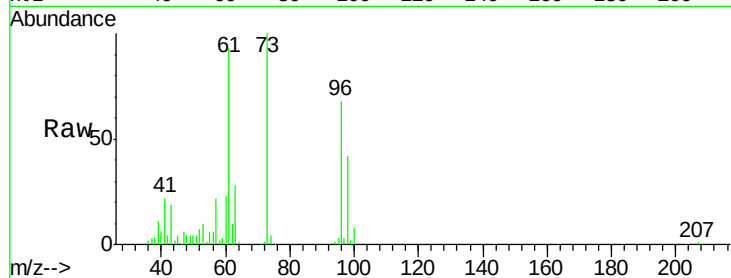
98 62.0 50.7 76.1

Manual Integrations

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2/25/2020 5:15:48 PM



#22

Diisopropyl ether

Concen: 48.572 ug/l

RT: 6.37 min Scan# 757

Delta R.T. 0.00 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

Tgt Ion: 45 Resp: 510024

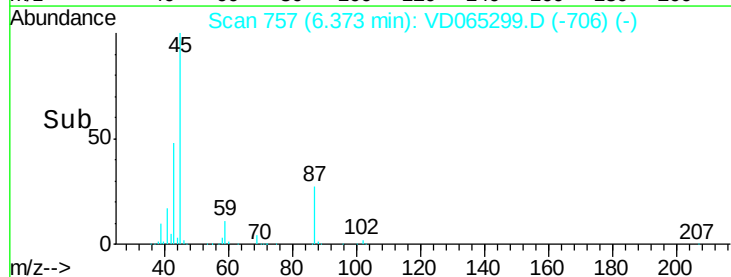
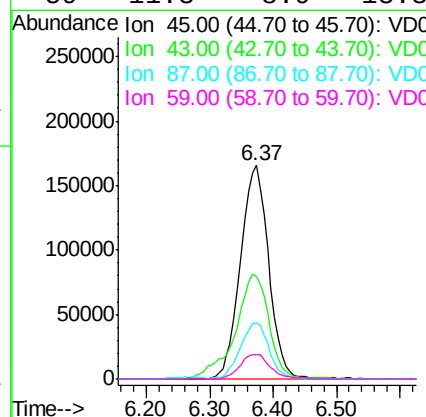
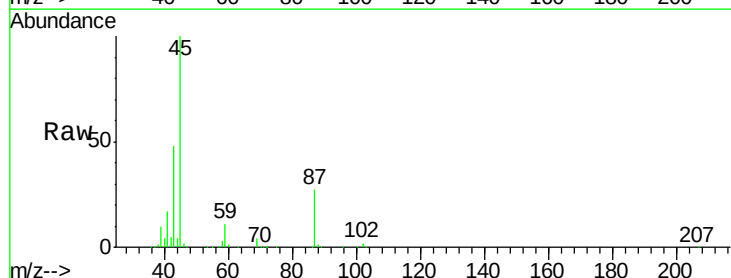
Ion Ratio Lower Upper

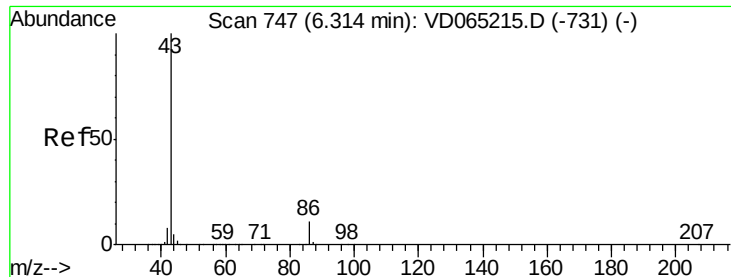
45 100

43 47.6 42.6 64.0

87 26.6 21.2 31.8

59 11.3 8.9 13.3





#23

Vinyl Acetate

Concen: 51.128 ug/l

RT: 6.37 min Scan# 756

Delta R.T. 0.05 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

Instrument :

MSVOA_D

ClientSampleId :

LIED-TS001-01MS

Tot Ion: 43 Resp: 295968

Ion Ratio Lower Upper

43 100

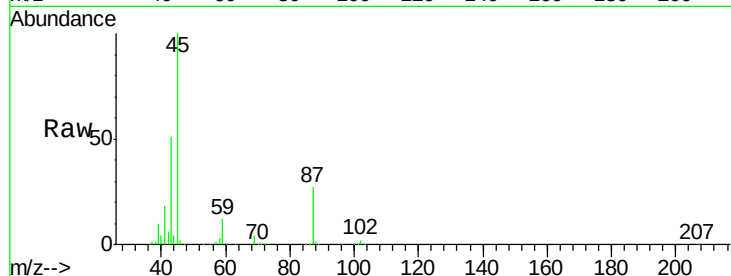
86 0.4 8.6 12.8#

Manual Integrations

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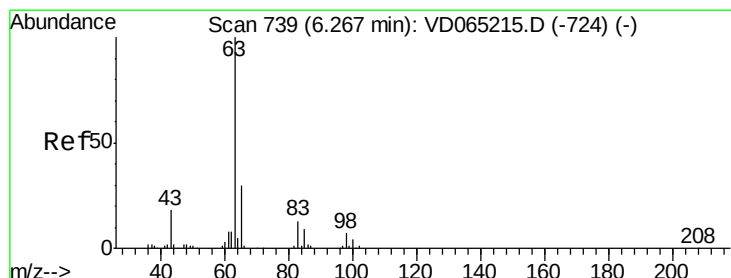
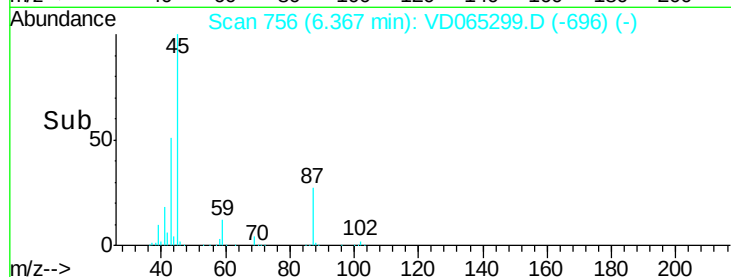
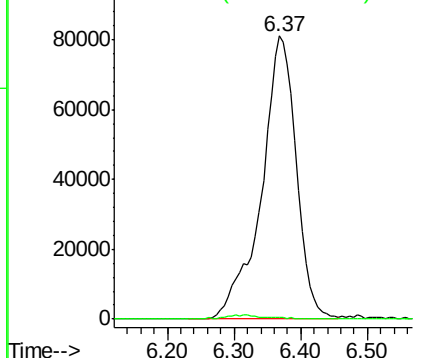
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 50.203 ug/l

RT: 6.27 min Scan# 739

Delta R.T. 0.00 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

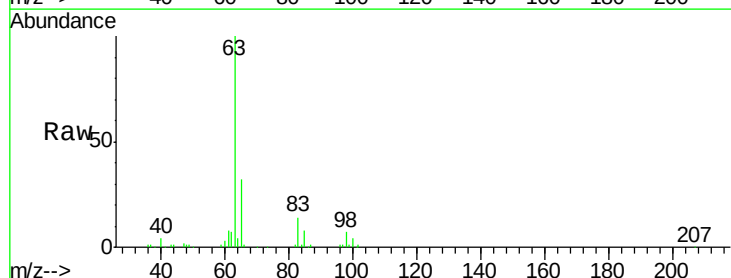
Tgt Ion: 63 Resp: 326971

Ion Ratio Lower Upper

63 100

98 7.1 3.4 10.1

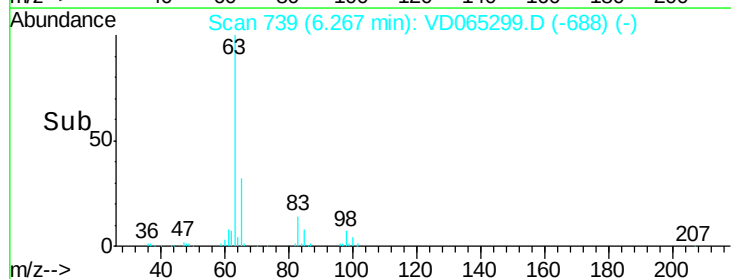
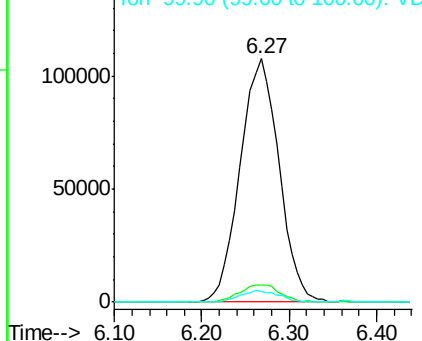
100 4.4 2.3 6.8

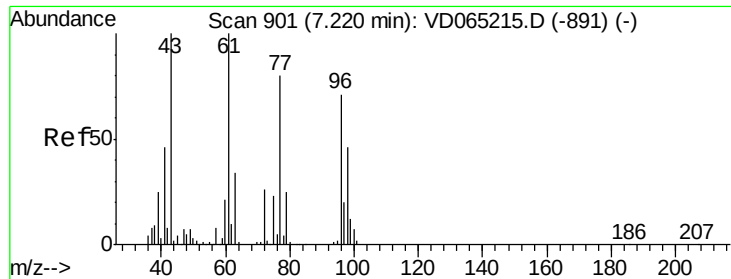


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 201.684 ug/l

RT: 7.23 min Scan# 902

Delta R.T. 0.01 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

Instrument :

MSVOA_D

ClientSampleId :

LIED-TS001-01MS

Tot Ion: 43 Resp: 203008

Ion Ratio Lower Upper

43 100

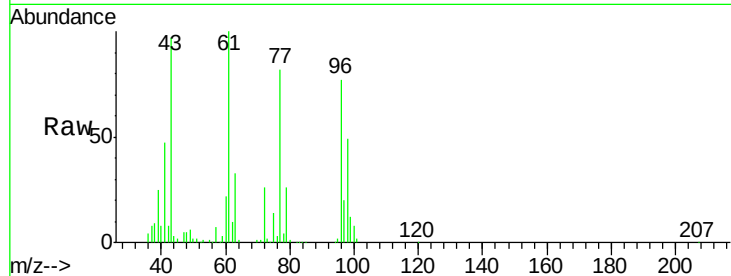
72 26.4 20.9 31.3

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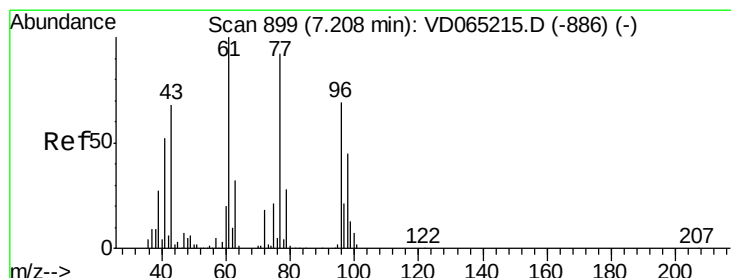
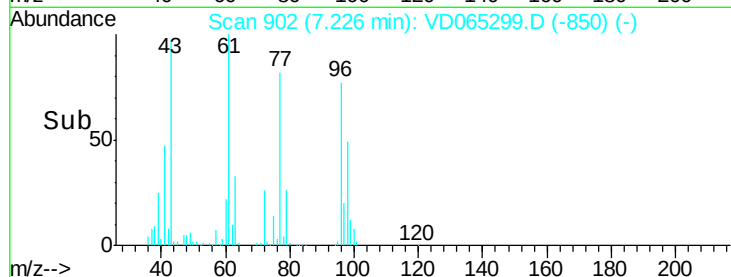
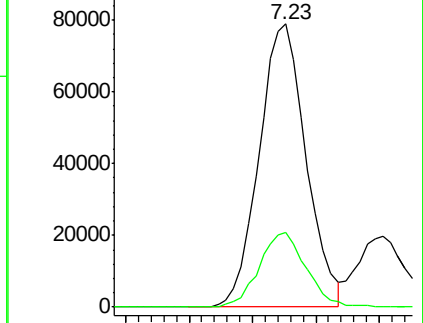
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 47.758 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.01 min

Lab File: VD065299.D

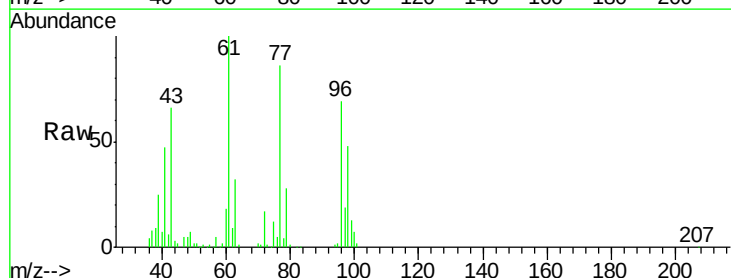
Acq: 24 Feb 2020 17:21

Tgt Ion: 77 Resp: 269874

Ion Ratio Lower Upper

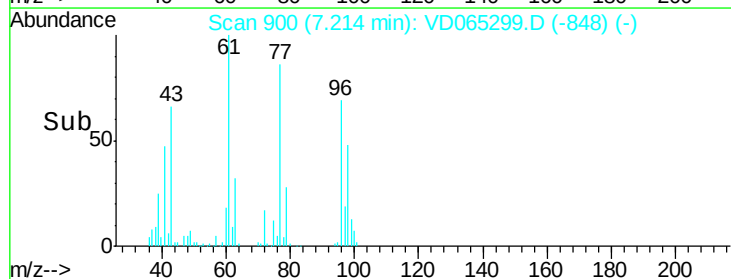
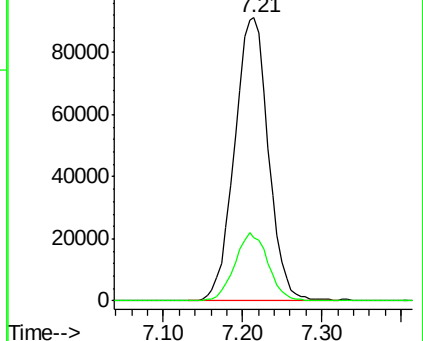
77 100

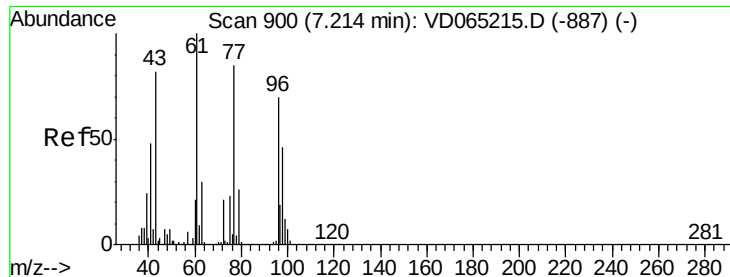
97 23.5 11.7 35.1



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC





#27

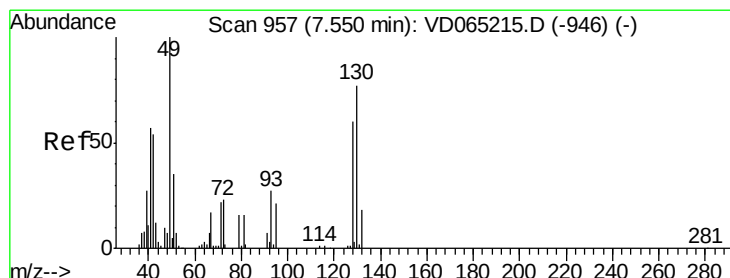
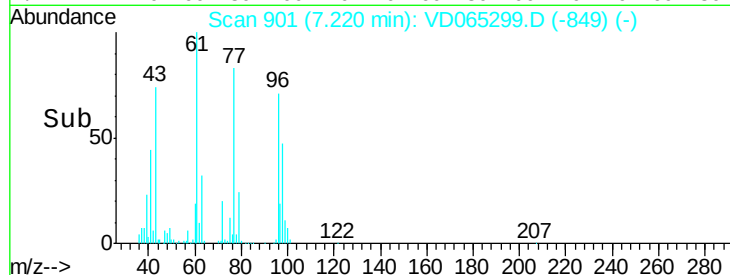
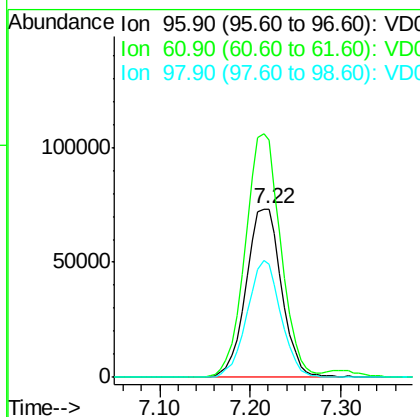
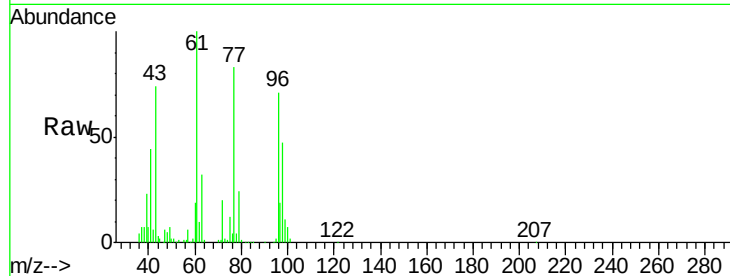
cis-1,2-Dichloroethene
 Concen: 49.241 ug/l
 RT: 7.22 min Scan# 901
 Delta R.T. 0.01 min
 Lab File: VD065299.D
 Acq: 24 Feb 2020 17:21

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-TS001-01MS

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	143.9	0.0	286.0	
98	66.4	0.0	127.8	

Manual Integrations
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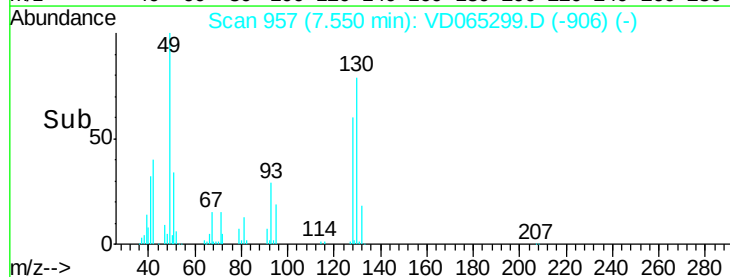
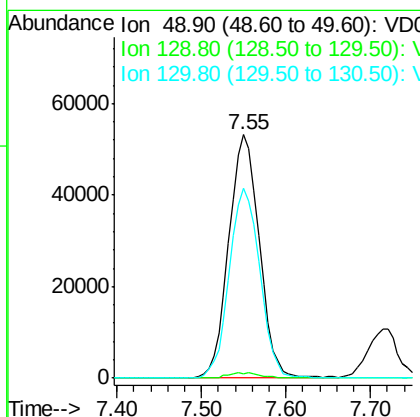
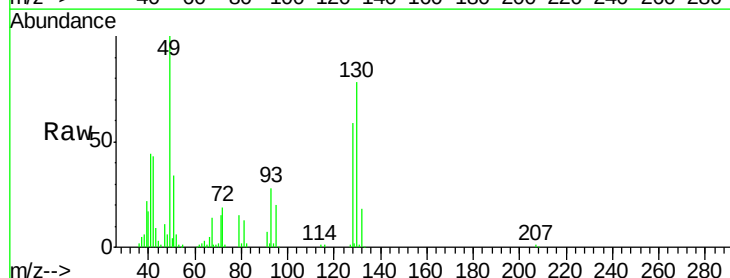
MMDadoda
 2/25/2020 5:15:48 PM

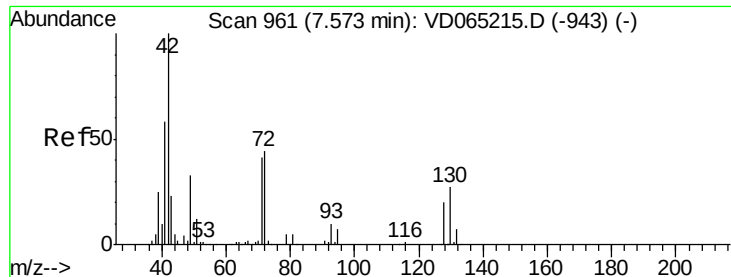


#28

Bromochloromethane
 Concen: 54.923 ug/l
 RT: 7.55 min Scan# 957
 Delta R.T. 0.00 min
 Lab File: VD065299.D
 Acq: 24 Feb 2020 17:21

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.2	0.0	4.6	
130	78.0	64.7	97.1	





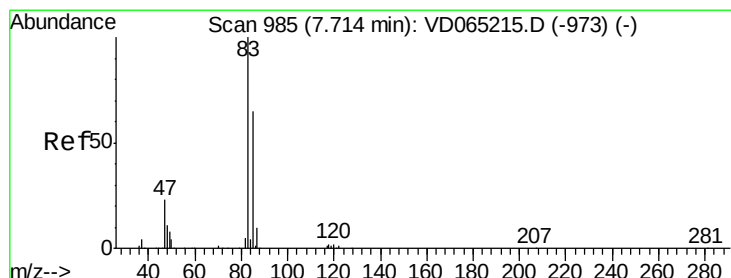
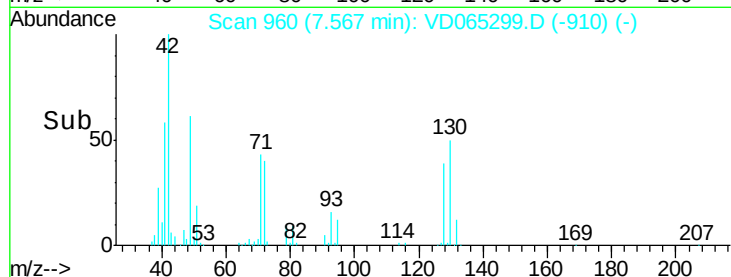
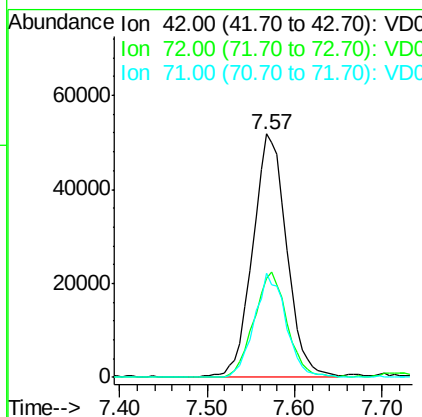
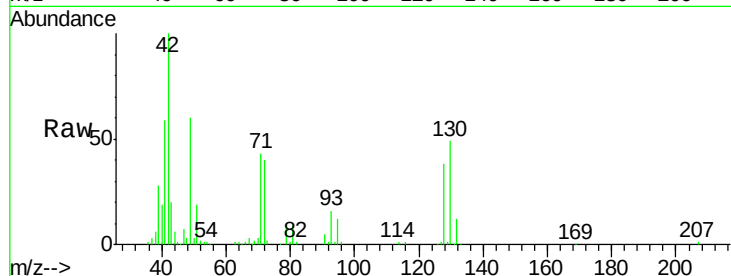
#29
Tetrahydrofuran
Concen: 234.154 ug/l
RT: 7.57 min Scan# 960
Delta R.T. -0.01 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MS

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.1	33.7	50.5
71	39.7	31.4	47.2

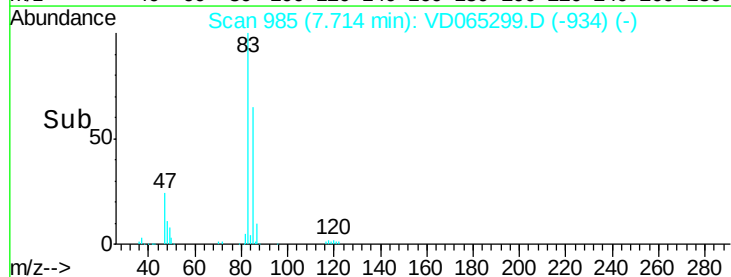
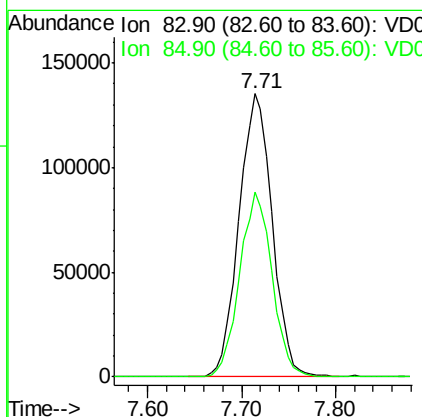
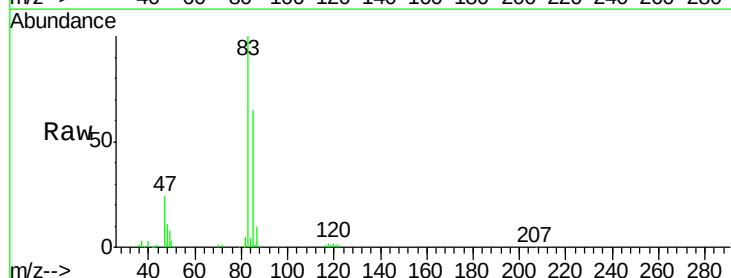
Manual Integrations
APPROVED

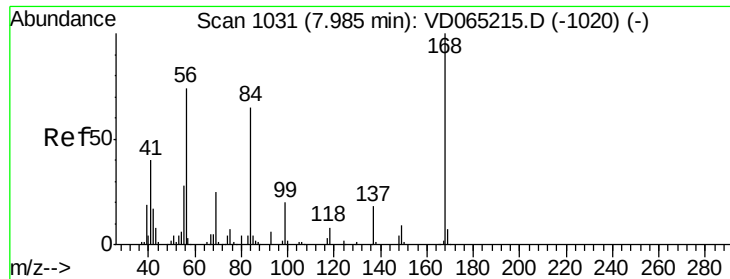
MMDadoda
2/25/2020 5:15:48 PM



#30
Chloroform
Concen: 50.505 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.3	52.3	78.5





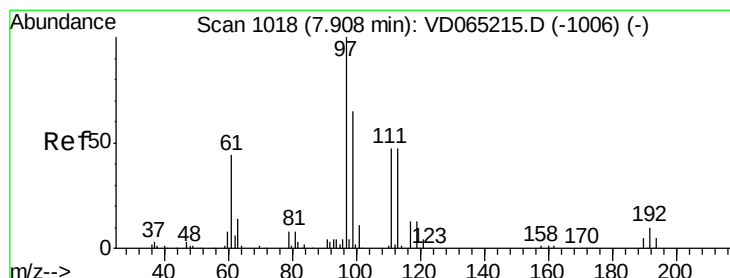
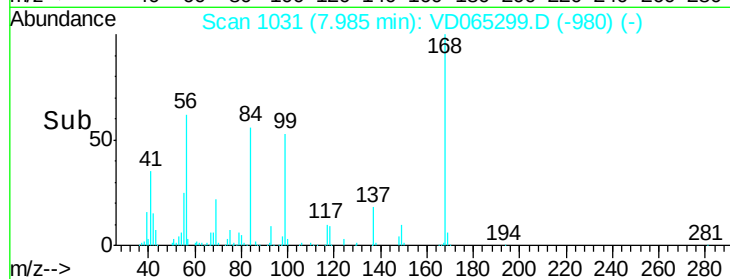
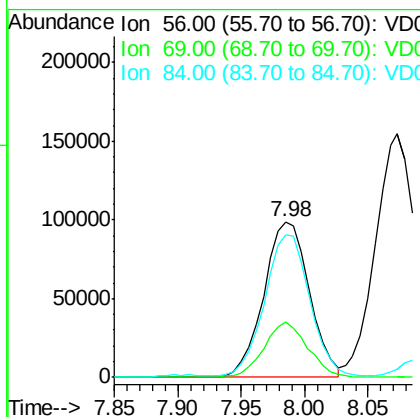
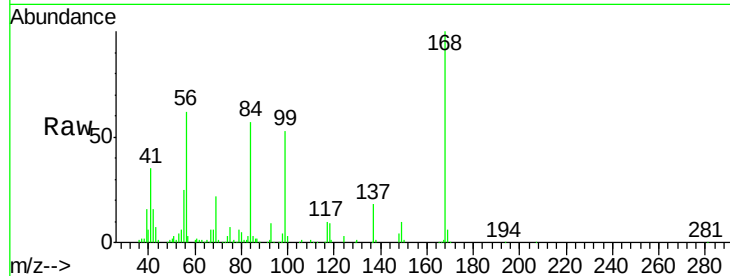
#31
Cyclohexane
Concen: 38.687 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MS

Tot Ion	Ion	Ratio	Lower	Upper
56	100			
69	35.9	27.4	41.0	
84	90.0	71.1	106.7	

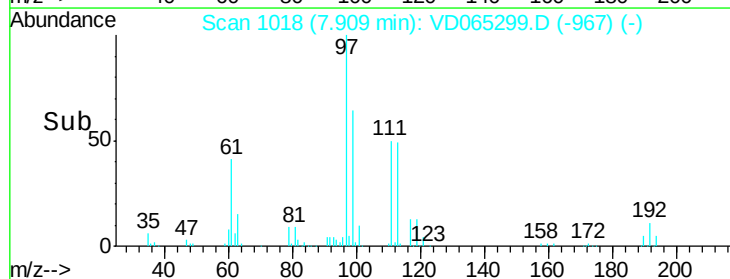
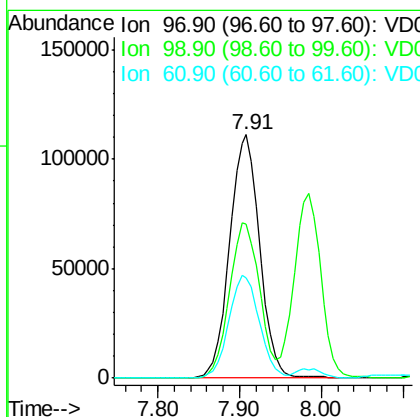
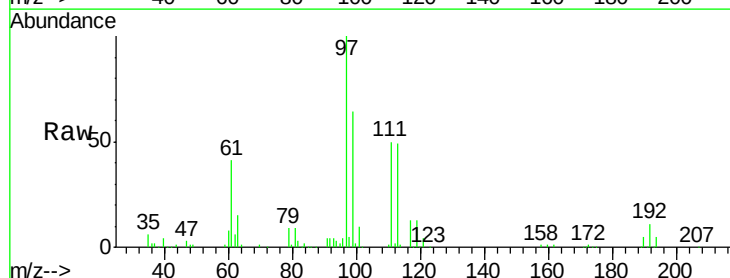
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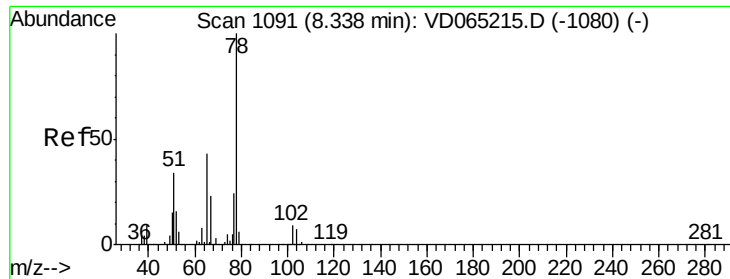
MMDadoda
2/25/2020 5:15:48 PM



#32
1,1,1-Trichloroethane
Concen: 48.255 ug/l
RT: 7.91 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Tgt Ion	Ion	Ratio	Lower	Upper
97	100			
99	64.1	51.4	77.2	
61	42.9	34.8	52.2	





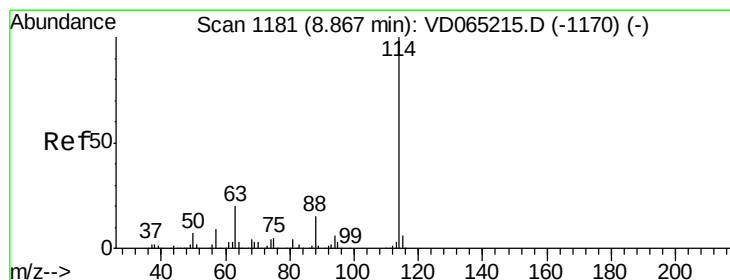
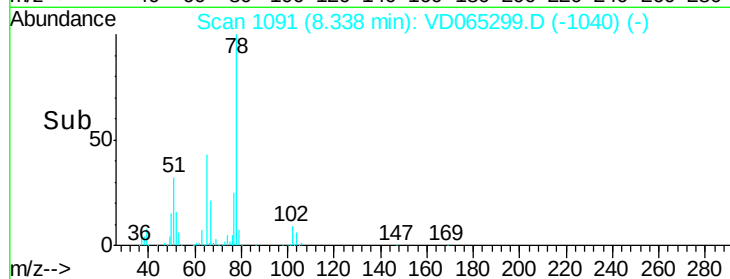
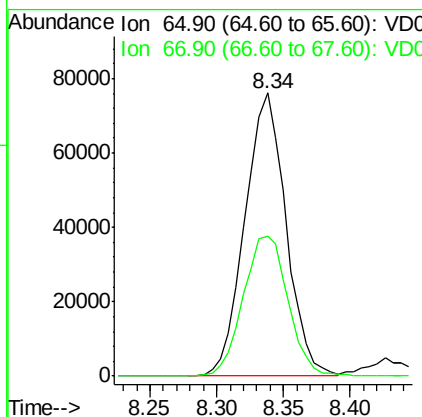
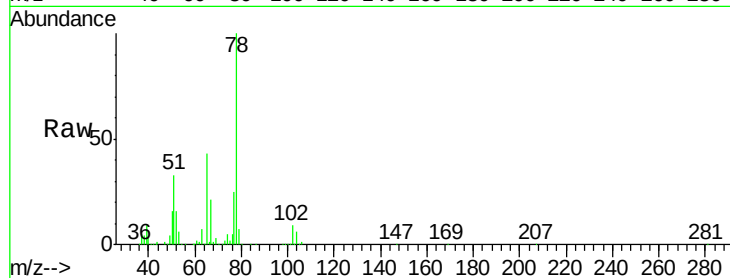
#33
 1,2-Dichloroethane-d4
 Concen: 49.846 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. 0.00 min
 Lab File: VD065299.D
 Acq: 24 Feb 2020 17:21

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-TS001-01MS

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	53.8	0.0	106.8	

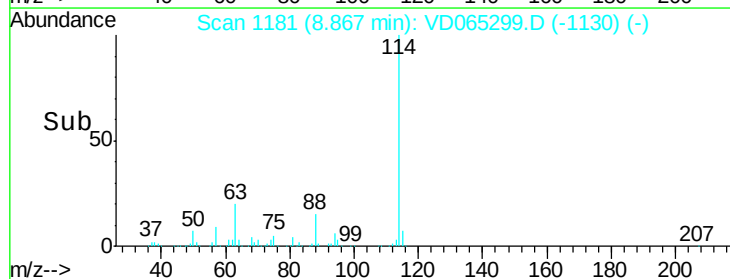
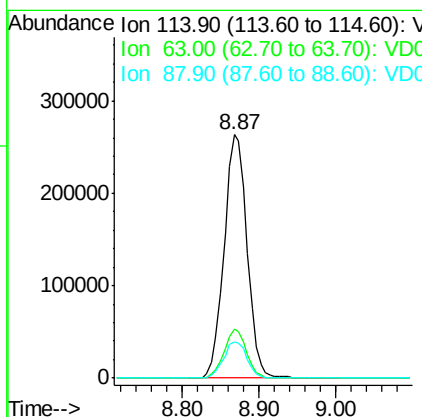
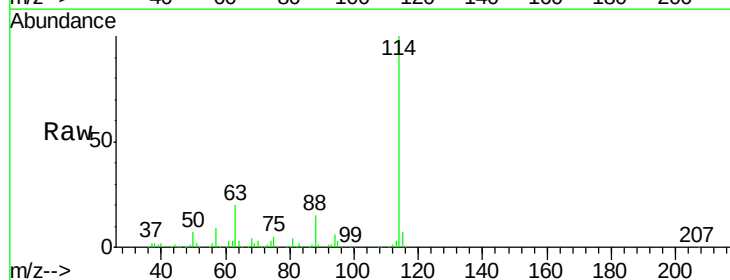
Manual Integrations
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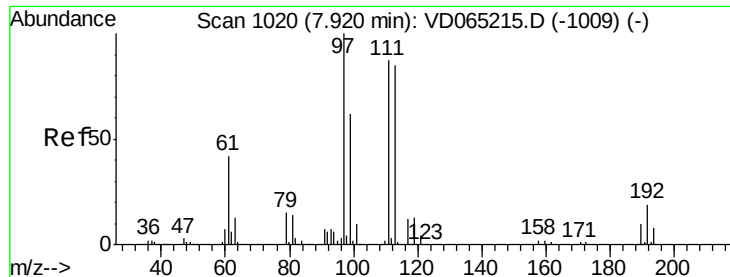
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 2/25/2020 5:15:48 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD065299.D
 Acq: 24 Feb 2020 17:21

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	20.1	0.0	39.4	
88	15.0	0.0	30.4	





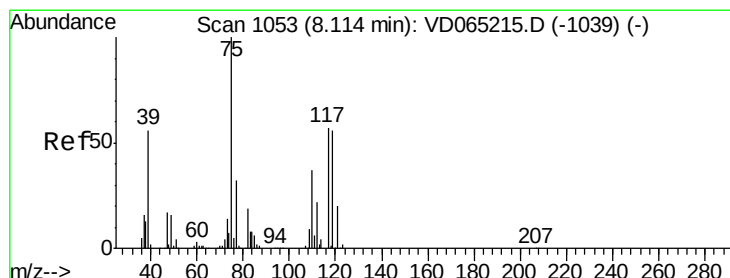
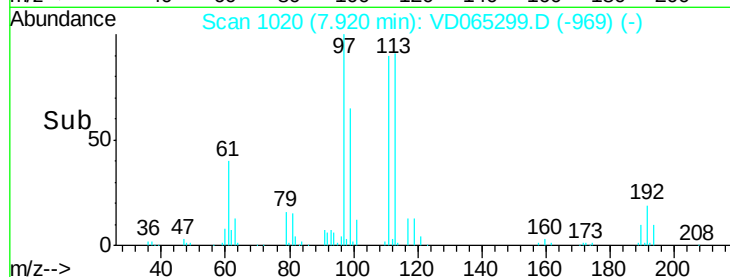
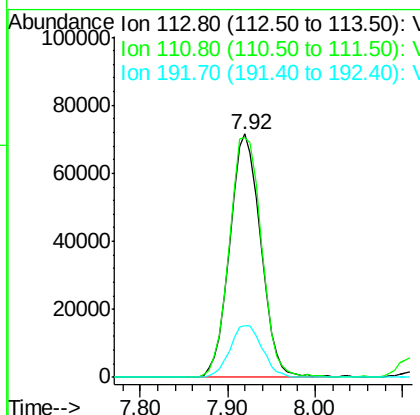
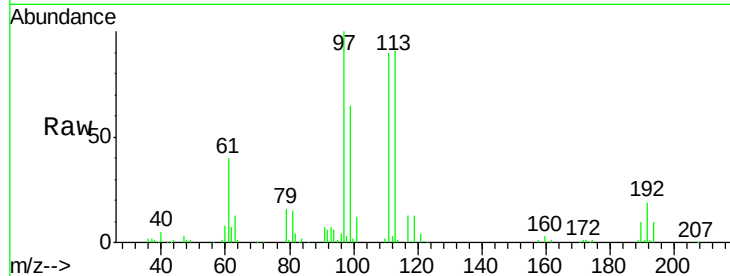
#35
Dibromofluoromethane
Concen: 51.682 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MS

Tot Ion	Ratio	Resp	Lower	Upper
113	100	172498		
111	101.9	82.9	124.3	
192	22.0	17.3	25.9	

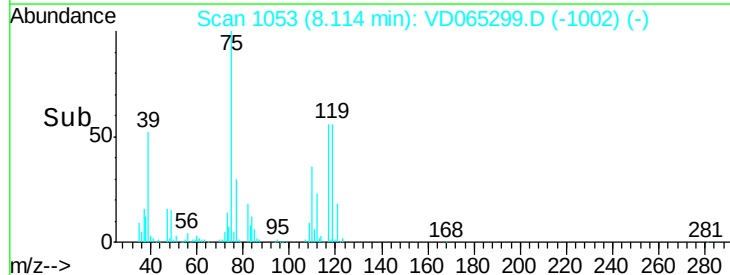
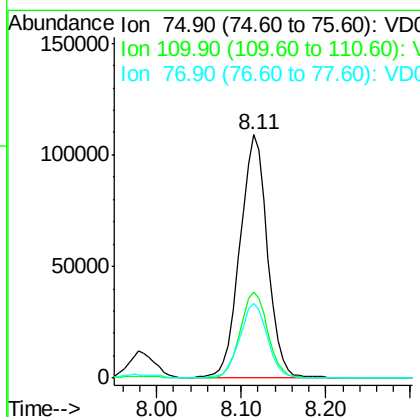
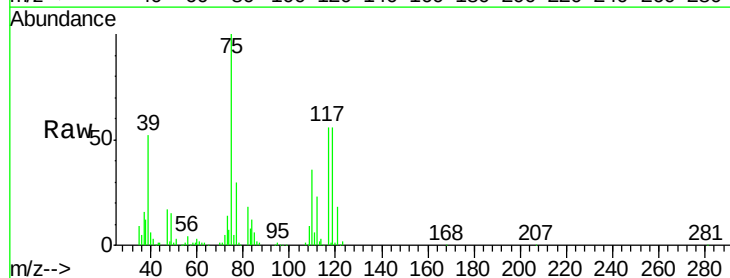
Manual Integrations
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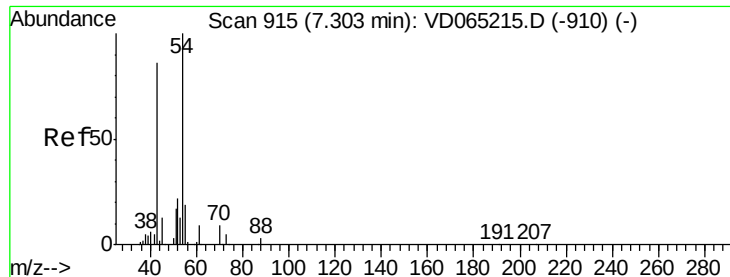
MMDadoda
2/25/2020 5:15:48 PM



#36
1,1-Dichloropropene
Concen: 45.967 ug/l
RT: 8.11 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	244830		
110	35.6	17.9	53.7	
77	31.3	25.1	37.7	





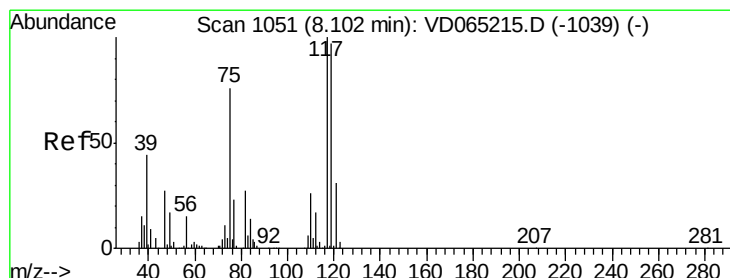
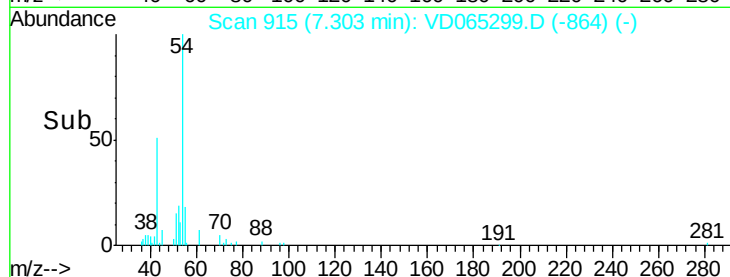
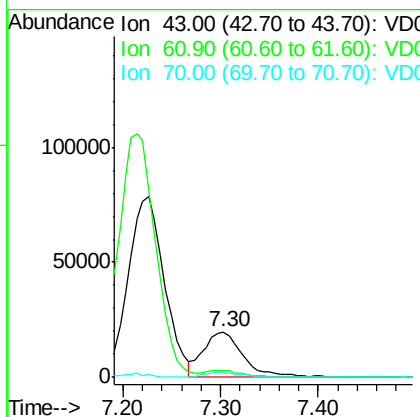
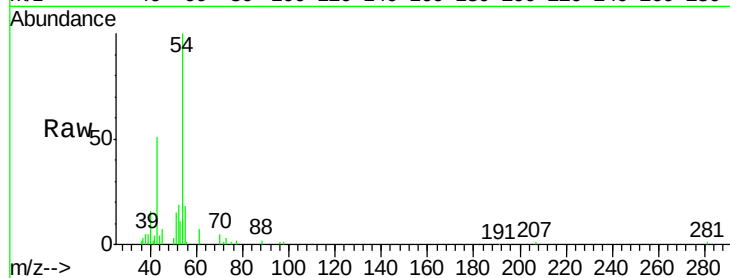
#37
Ethyl Acetate
Concen: 24.621 ug/l
RT: 7.30 min Scan# 915
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MS

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.2	16.8#
70	10.3	8.2	12.2

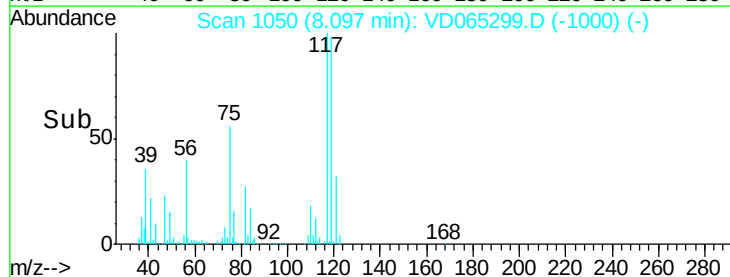
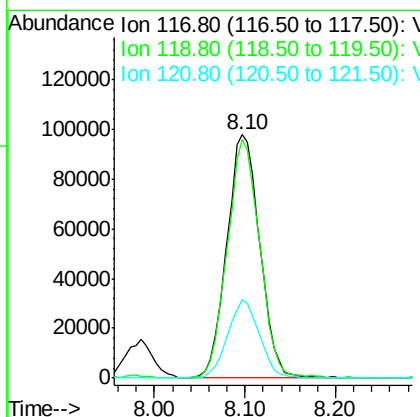
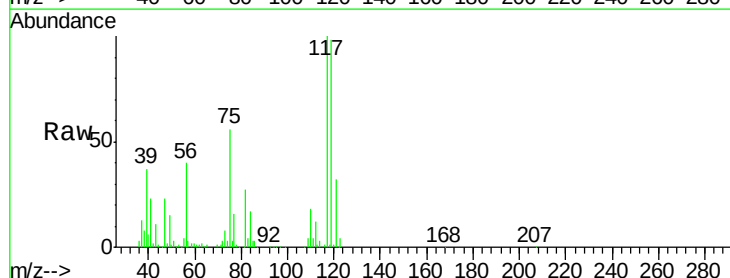
Manual Integrations
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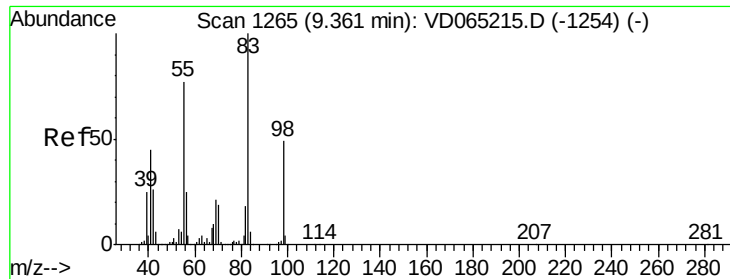
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2/25/2020 5:15:48 PM



#38
Carbon Tetrachloride
Concen: 45.674 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. -0.01 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.7	77.6	116.4
121	32.3	24.8	37.2





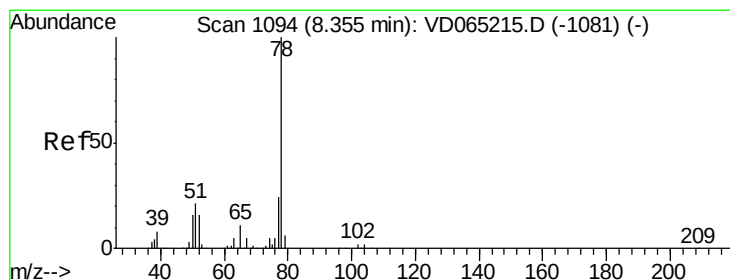
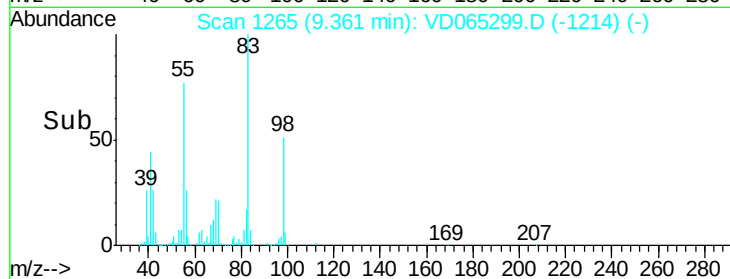
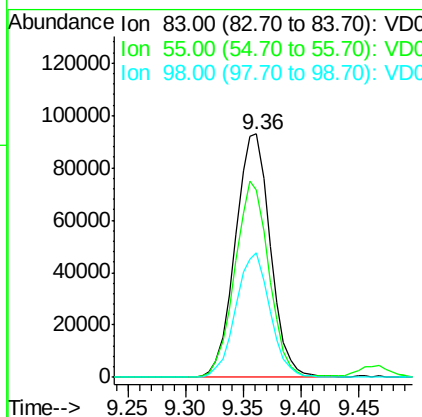
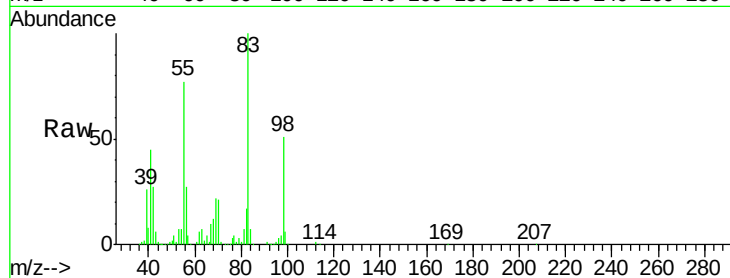
#39
Methylvlcyclohexane
Concen: 31.325 ug/l
RT: 9.36 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MS

Tot Ion	Ratio	Lower	Upper
83	100		
55	76.9	61.8	92.6
98	51.4	39.4	59.0

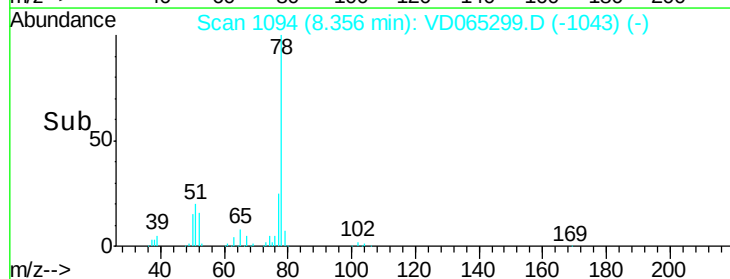
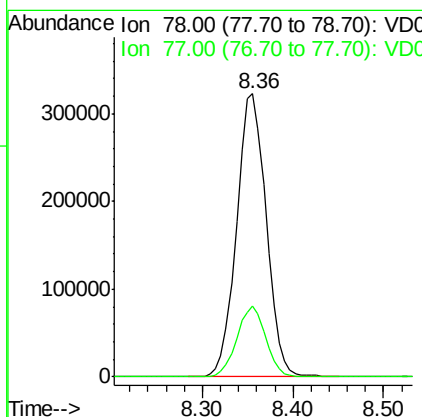
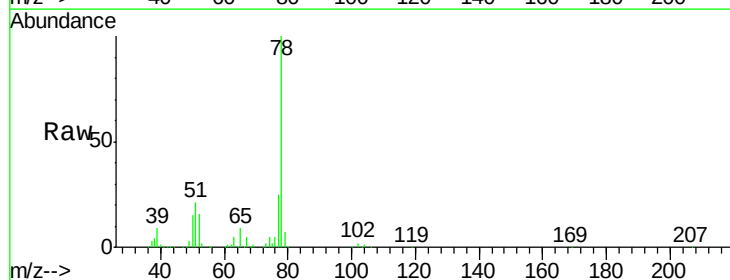
Manual Integrations
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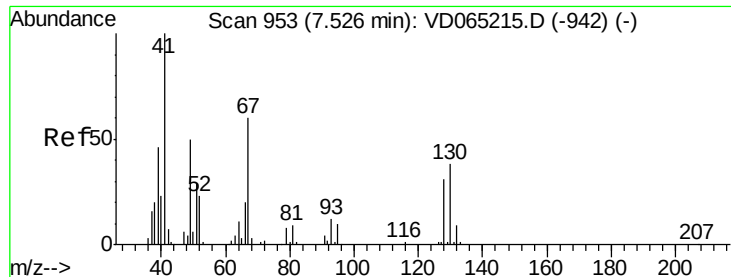
MMDadoda
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#40
Benzene
Concen: 48.876 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.2	19.0	28.6





#41

Methacrylonitrile

Concen: 42.710 ug/l

RT: 7.53 min Scan# 954

Delta R.T. 0.01 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

Instrument :

MSVOA_D

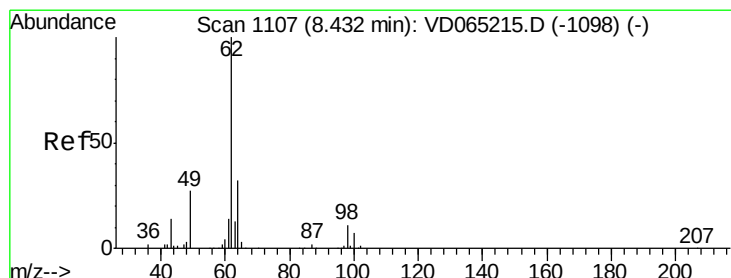
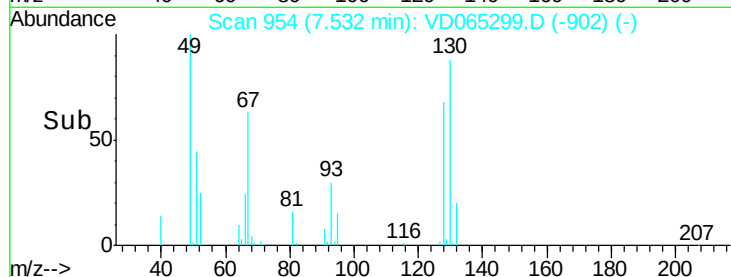
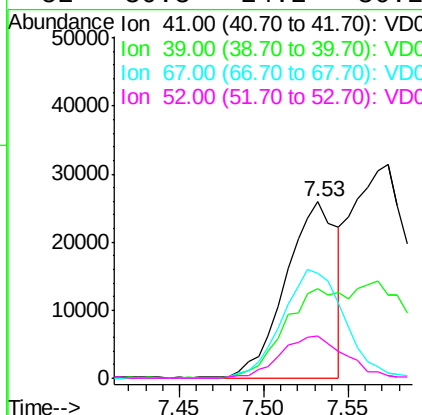
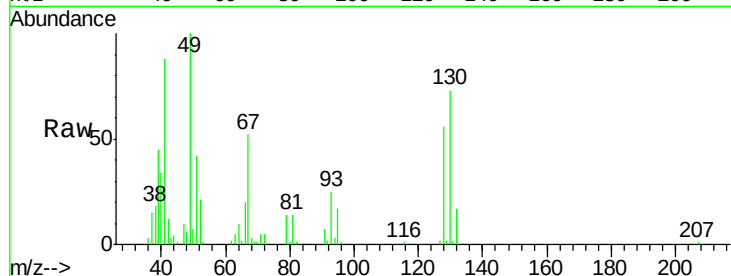
ClientSampleId :

LIED-TS001-01MS

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		54909		
39	60.8	48.1	72.1		
67	74.9	58.9	88.3		
52	30.3	24.2	36.2		

Manual Integrations
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MMDadoda
2/25/2020 5:15:48 PM



#42

1,2-Dichloroethane

Concen: 48.099 ug/l

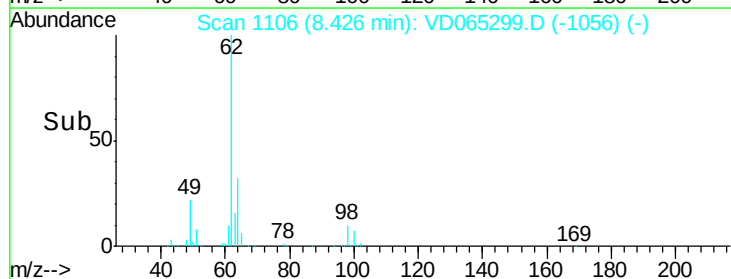
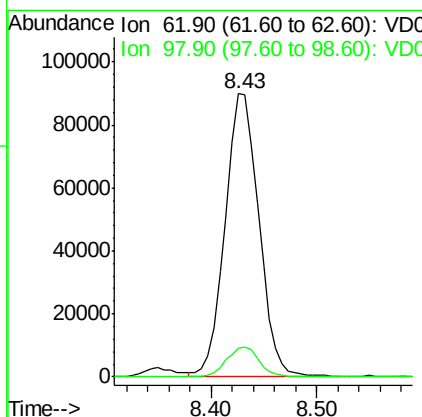
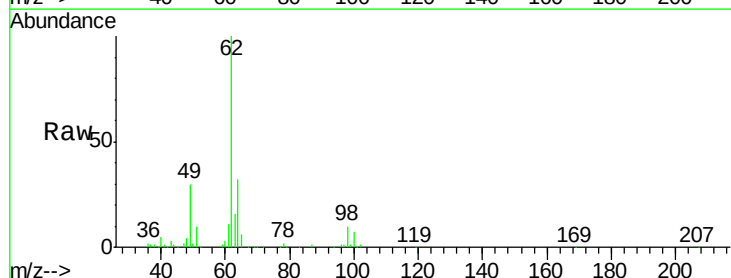
RT: 8.43 min Scan# 1106

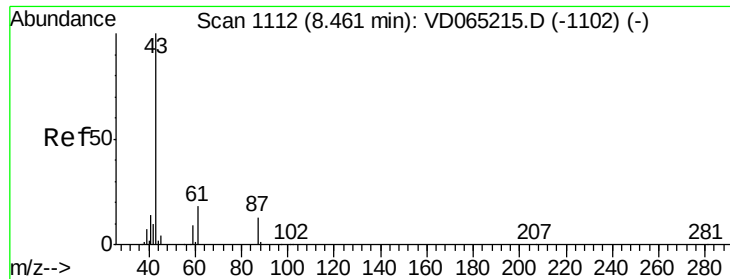
Delta R.T. -0.01 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		198792		
98	10.3	0.0	20.6		





#43

Isopropyl Acetate

Concen: 31.544 ug/l

RT: 8.46 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

Instrument :

MSVOA_D

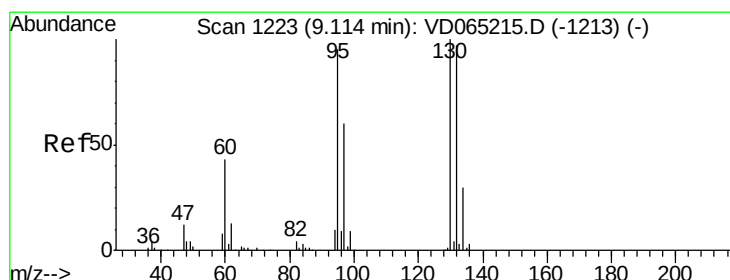
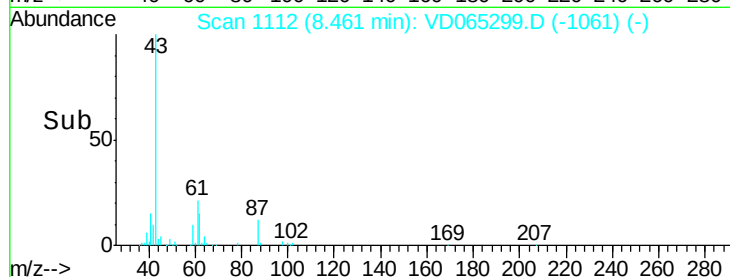
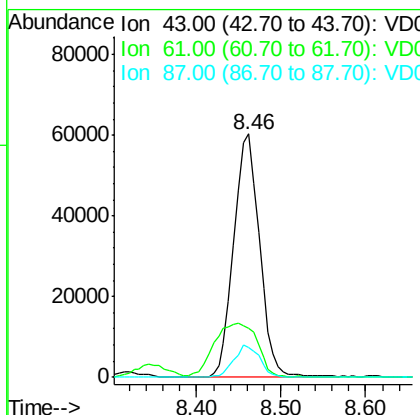
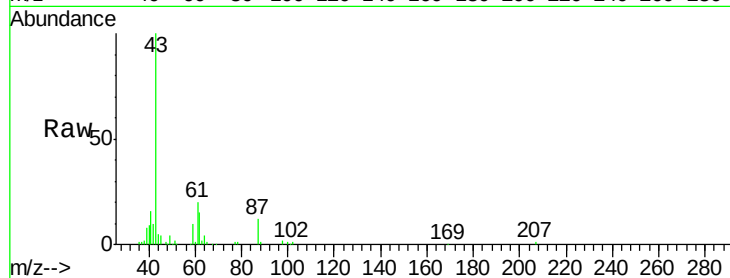
ClientSampleId :

LIED-TS001-01MS

Tot Ion:	43	Resp:	127720
Ion	Ratio	Lower	Upper
43	100		
61	37.6	24.6	36.8#
87	12.9	10.6	16.0

Manual Integrations
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2/25/2020 5:15:48 PM



#44

Trichloroethene

Concen: 46.300 ug/l

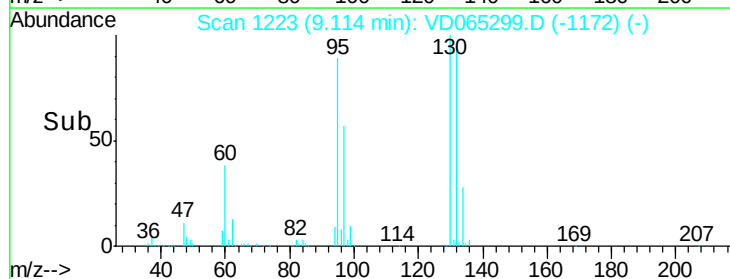
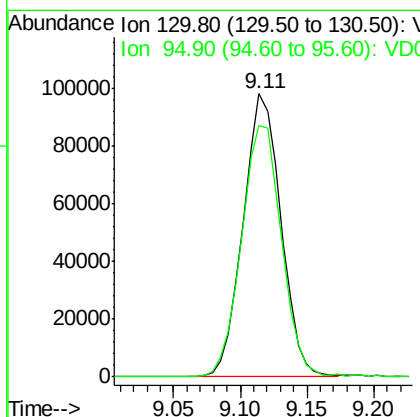
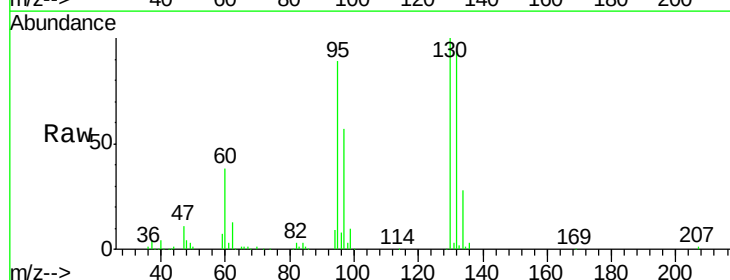
RT: 9.11 min Scan# 1223

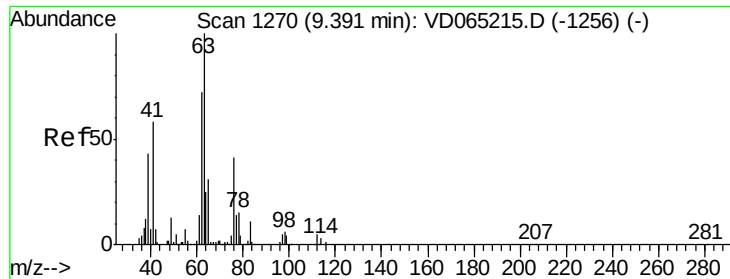
Delta R.T. 0.00 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

Tgt Ion:	130	Resp:	192946
Ion	Ratio	Lower	Upper
130	100		
95	88.6	0.0	190.6





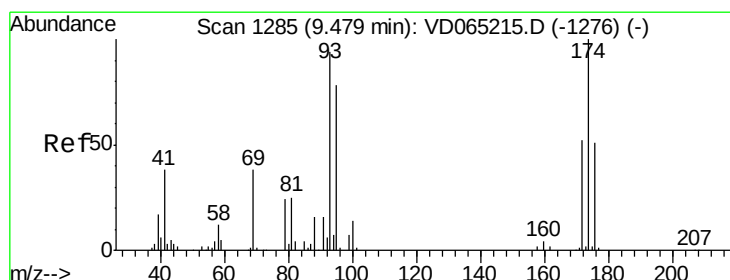
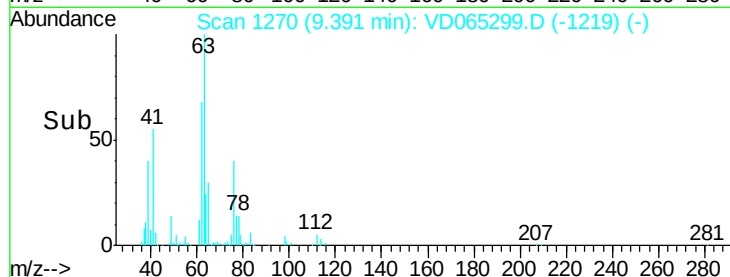
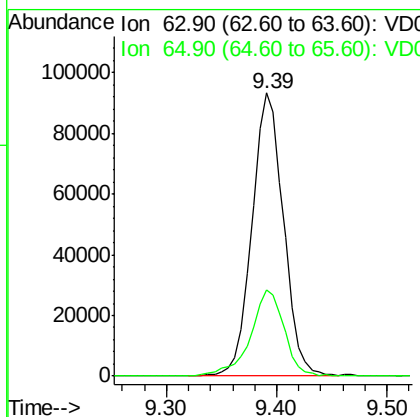
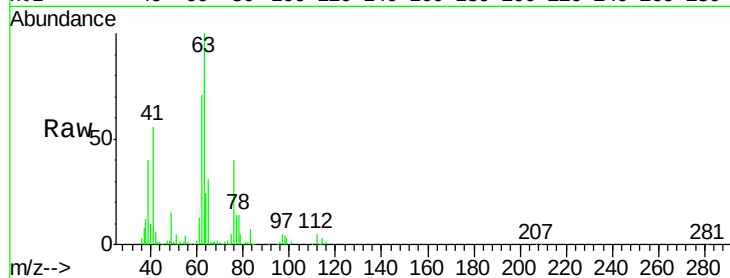
#45
 1,2-Dichloropropane
 Concen: 50.059 ug/l
 RT: 9.39 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VD065299.D
 Acq: 24 Feb 2020 17:21

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-TS001-01MS

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.6	24.9	37.3

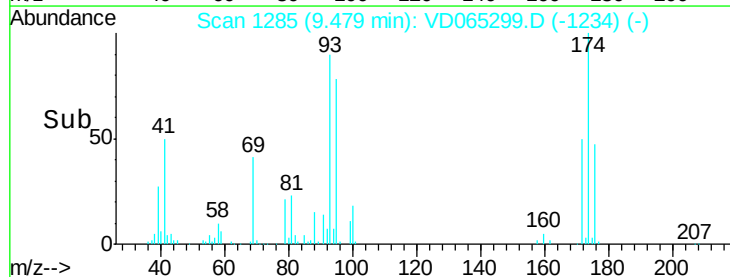
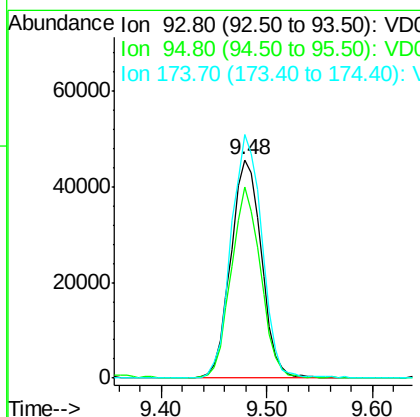
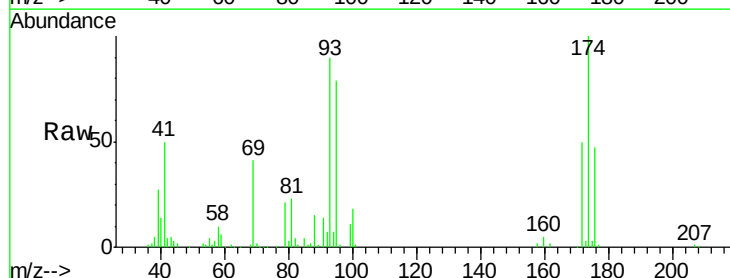
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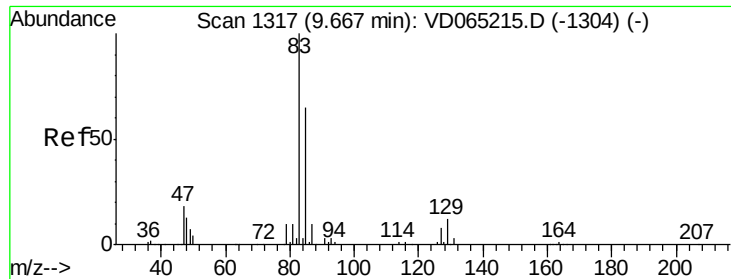
MMDadoda
 2/25/2020 5:15:48 PM



#46
 Dibromomethane
 Concen: 47.795 ug/l
 RT: 9.48 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: VD065299.D
 Acq: 24 Feb 2020 17:21

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.1	65.8	98.6
174	111.3	86.8	130.2





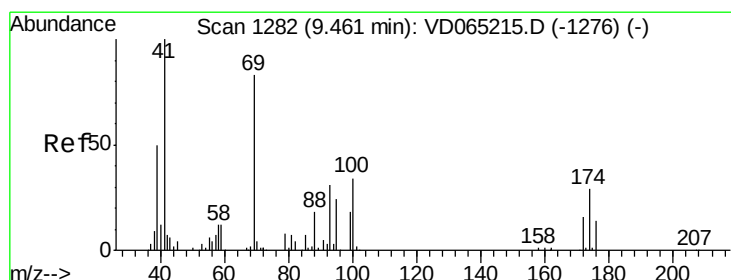
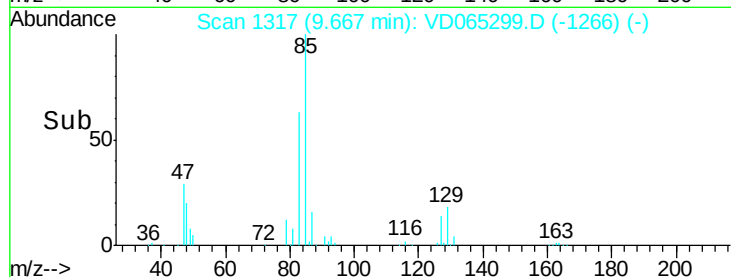
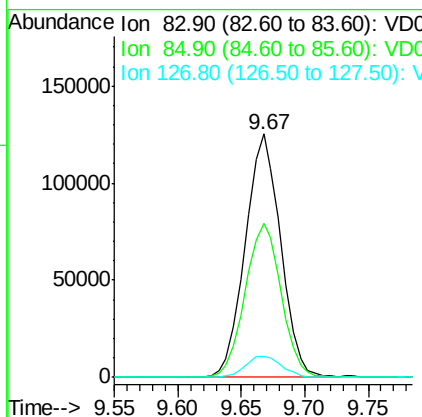
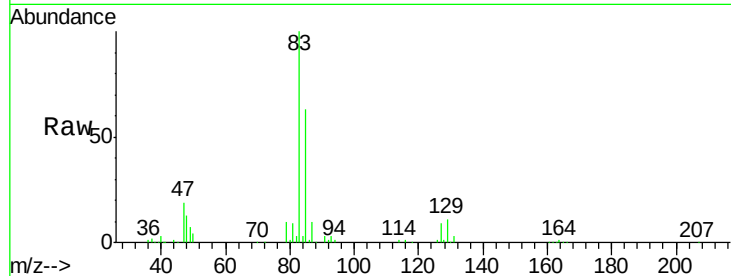
#47
Bromodichloromethane
Concen: 48.133 ug/l
RT: 9.67 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MS

Tot Ion	Ratio	Resp	Lower	Upper
83	100	243980		
85	63.1	52.0	78.0	
127	8.7	6.7	10.1	

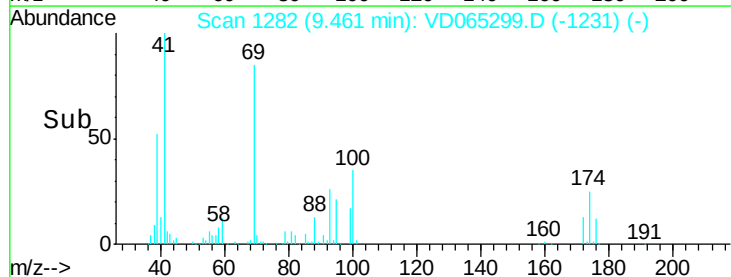
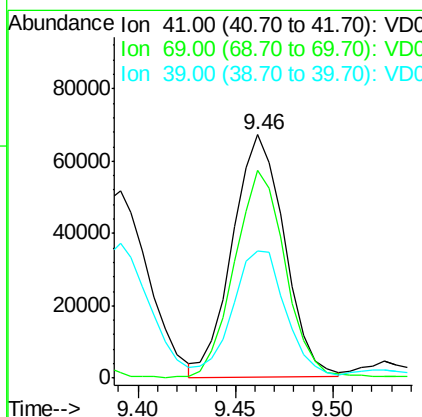
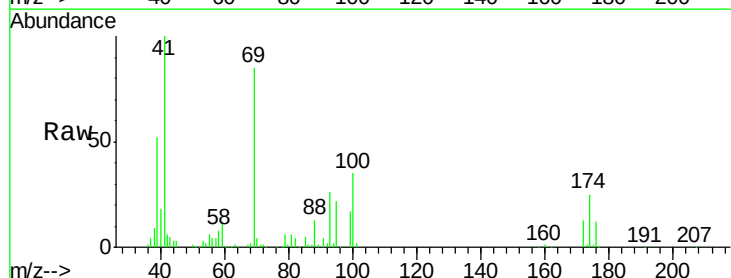
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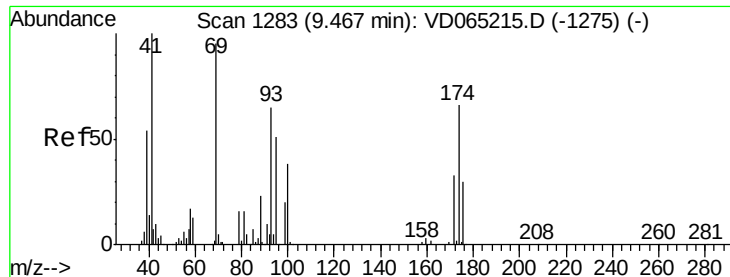
MMDadoda
2/25/2020 5:15:48 PM



#48
Methyl methacrylate
Concen: 66.252 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	123995		
69	83.3	68.2	102.2	
39	53.8	42.0	63.0	





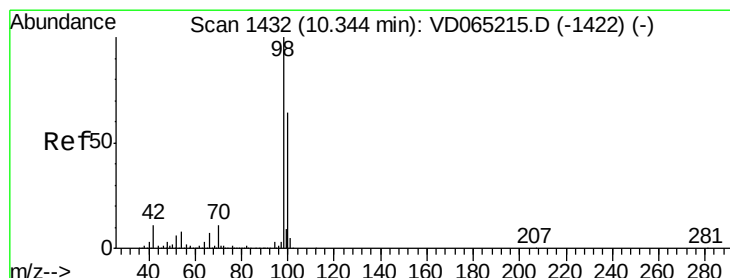
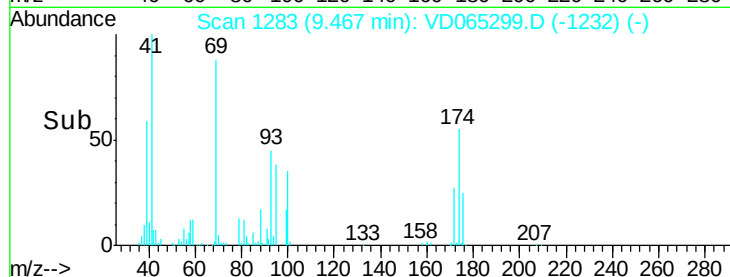
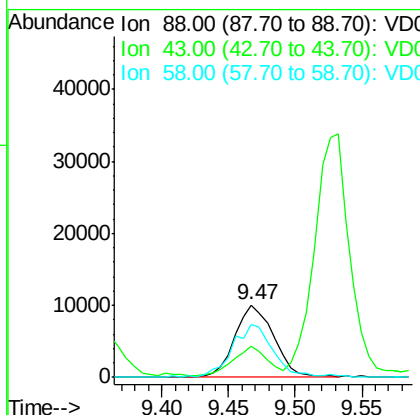
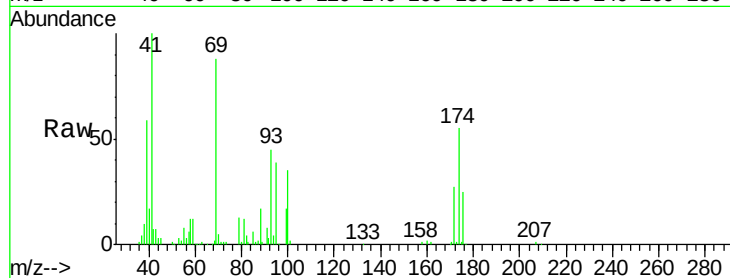
#49
1,4-Dioxane
Concen: 905.909 ug/l
RT: 9.47 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MS

Tot Ion	88	Resp	20436
Ion	Ratio	Lower	Upper
88	100		
43	34.5	28.5	42.7
58	75.9	58.6	87.8

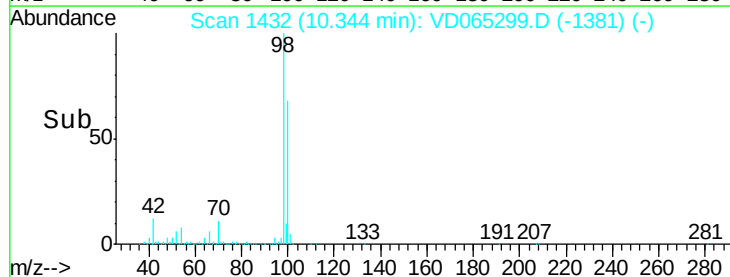
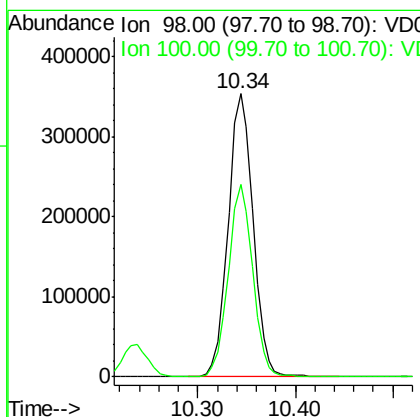
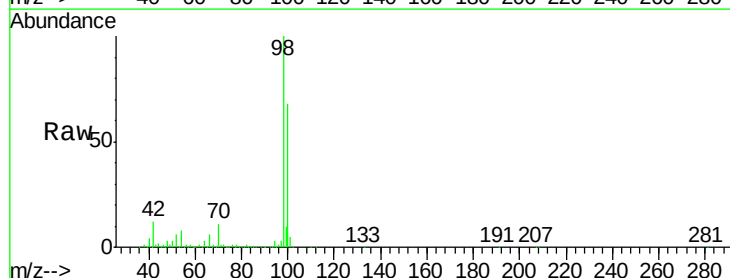
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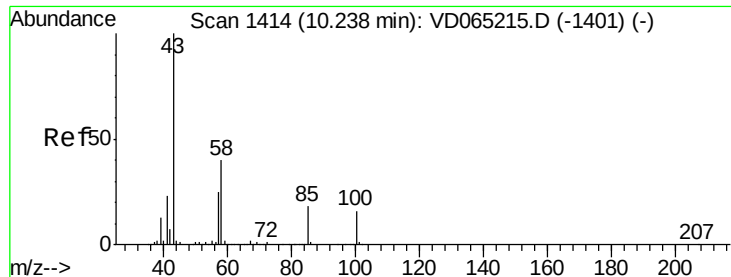
MMDadoda
2/25/2020 5:15:48 PM



#50
Toluene-d8
Concen: 49.293 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Tgt Ion	98	Resp	628966
Ion	Ratio	Lower	Upper
98	100		
100	67.1	52.0	78.0





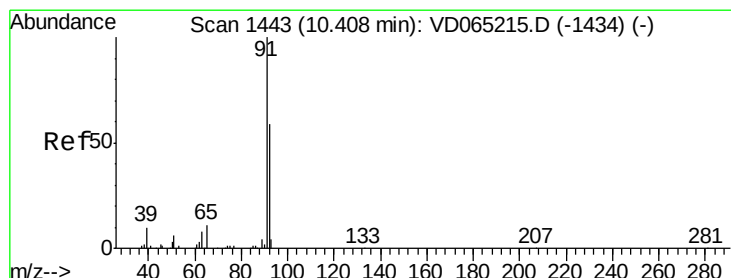
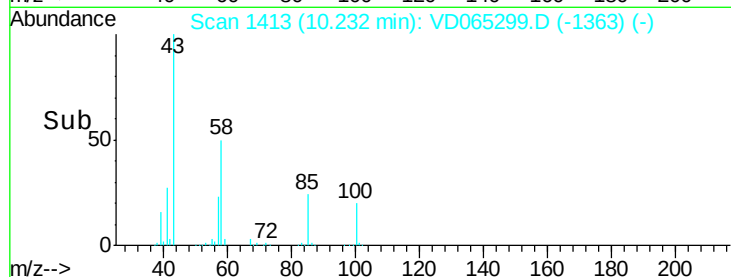
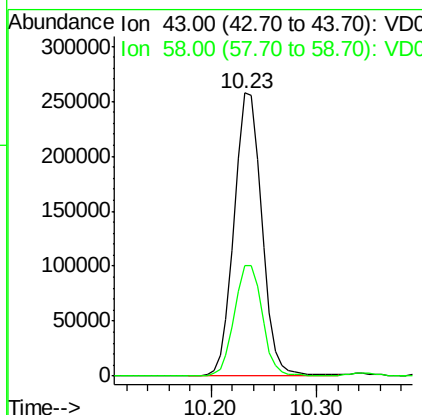
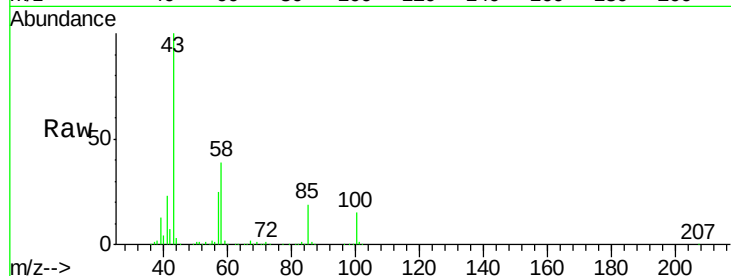
#51
4-Methyl-2-Pentanone
Concen: 227.767 ug/l
RT: 10.23 min Scan# 1413
Delta R.T. -0.01 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MS

Tot Ion	43	Resp	468409
Ion Ratio	100	Lower	Upper
43	100		
58	39.4	31.1	46.7

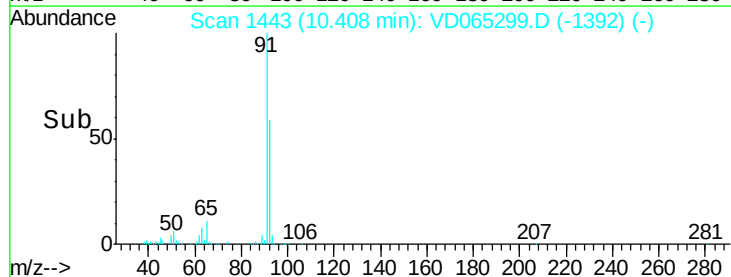
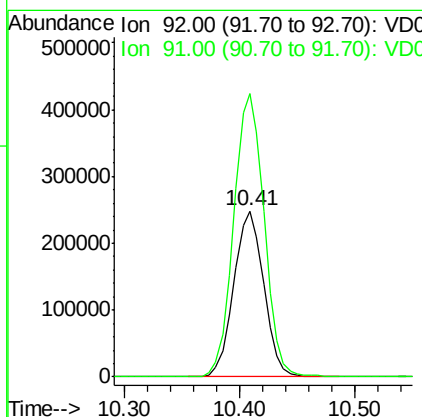
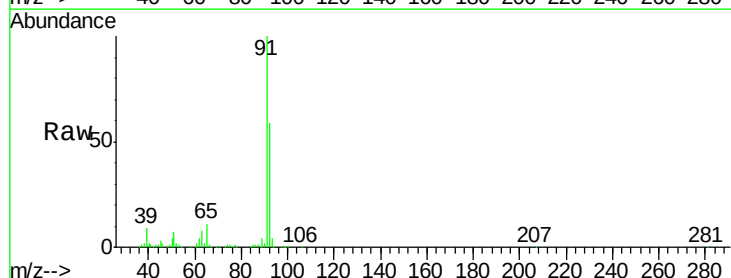
Manual Integrations
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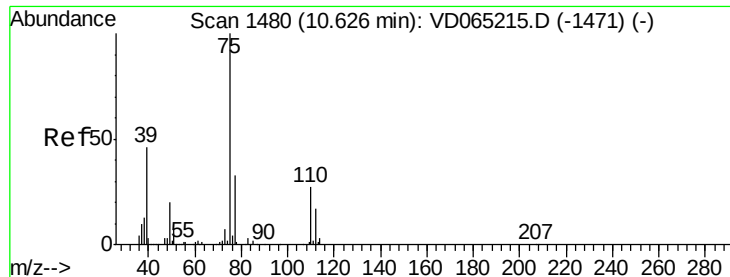
MMDadoda
2/25/2020 5:15:48 PM



#52
Toluene
Concen: 48.077 ug/l
RT: 10.41 min Scan# 1443
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Tgt Ion	92	Resp	447379
Ion Ratio	100	Lower	Upper
92	100		
91	172.8	136.3	204.5





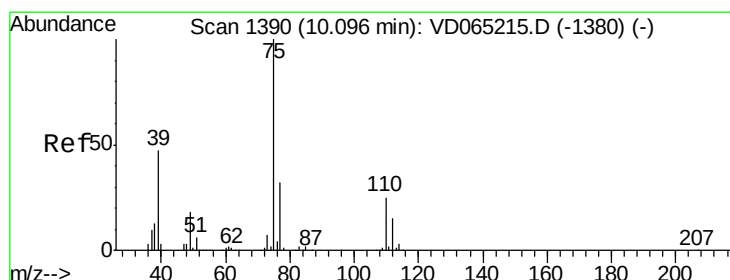
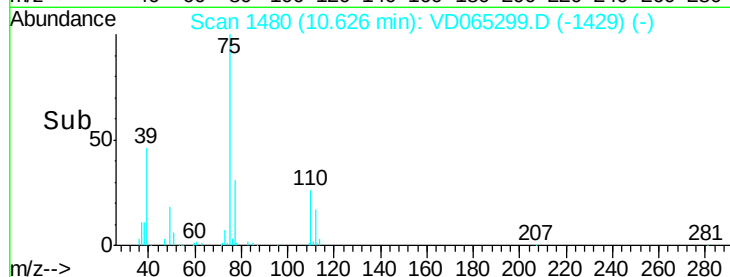
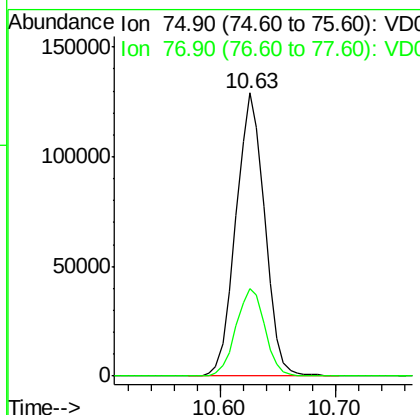
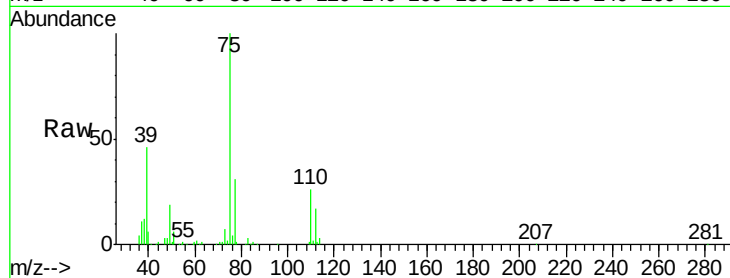
#53
t-1,3-Dichloropropene
Concen: 47.518 ug/l
RT: 10.63 min Scan# 1480
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MS

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.0	26.6	40.0

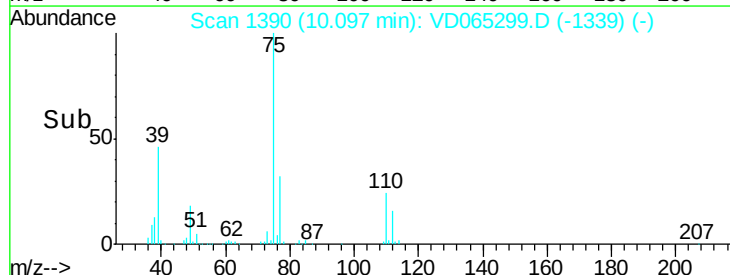
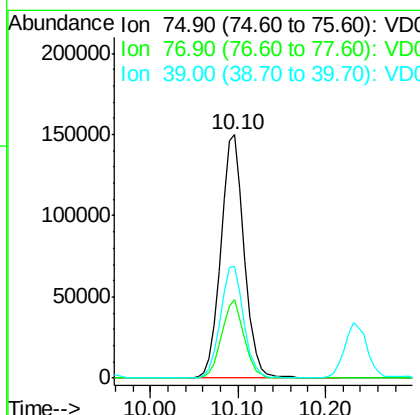
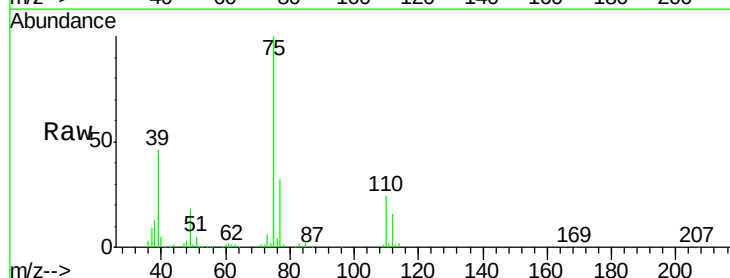
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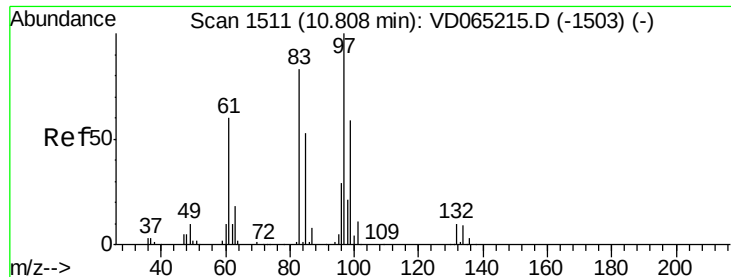
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 48.461 ug/l
RT: 10.10 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.8	38.8
39	45.4	37.3	55.9





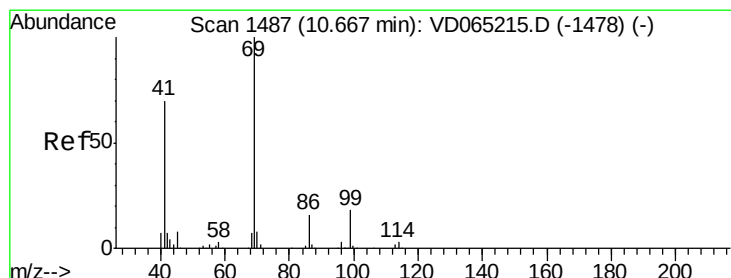
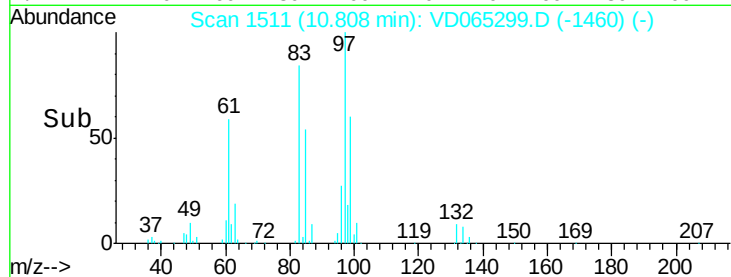
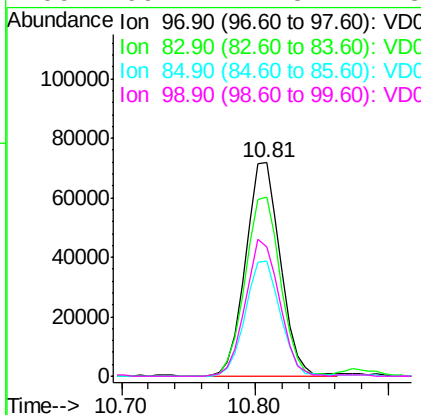
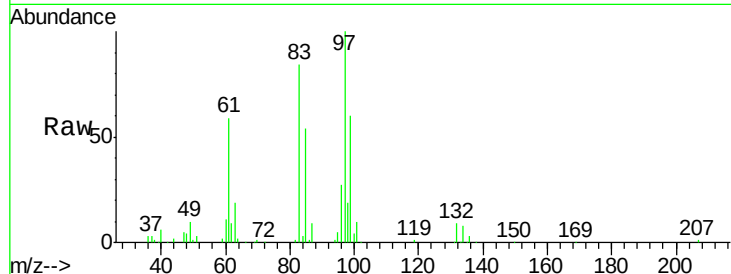
#55
 1,1,2-Trichloroethane
 Concen: 47.818 ug/l
 RT: 10.81 min Scan# 1511
 Delta R.T. 0.00 min
 Lab File: VD065299.D
 Acq: 24 Feb 2020 17:21

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-TS001-01MS

Tot Ion:	97	Resp:	129452
Ion	Ratio	Lower	Upper
97	100		
83	83.9	66.7	100.1
85	54.1	42.4	63.6
99	60.4	47.5	71.3

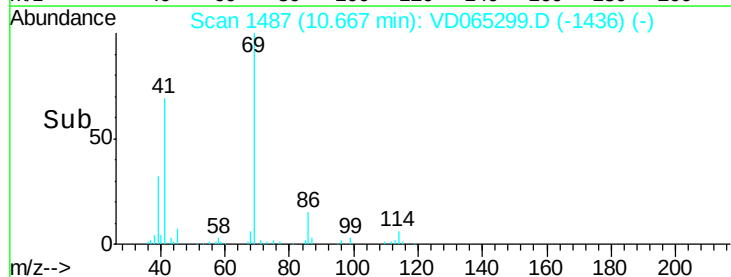
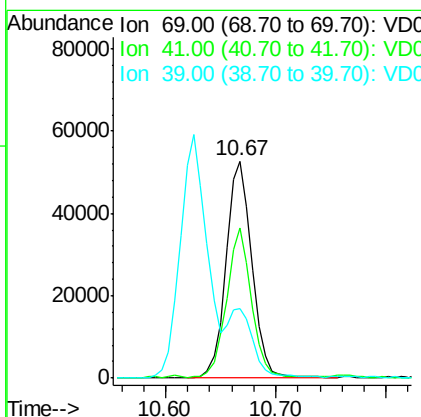
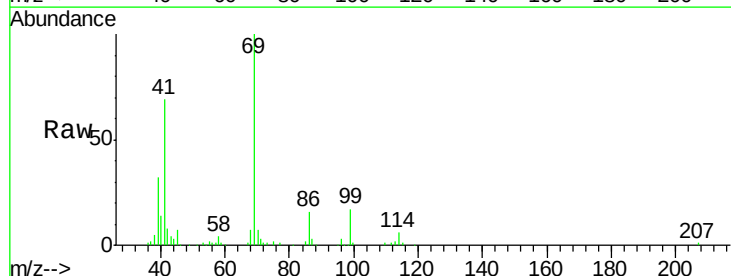
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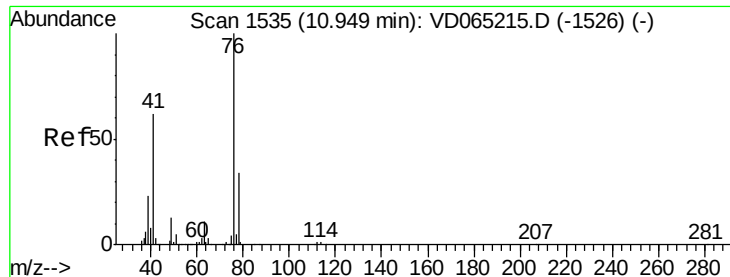
MMDadoda
 2/25/2020 5:15:48 PM



#56
 Ethyl methacrylate
 Concen: 27.730 ug/l
 RT: 10.67 min Scan# 1487
 Delta R.T. 0.00 min
 Lab File: VD065299.D
 Acq: 24 Feb 2020 17:21

Tgt Ion:	69	Resp:	86647
Ion	Ratio	Lower	Upper
69	100		
41	65.4	54.6	81.8
39	27.0	26.5	39.7





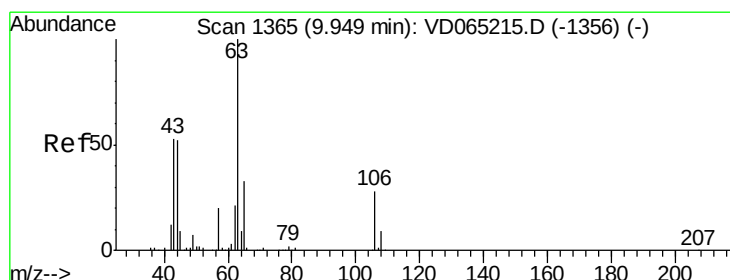
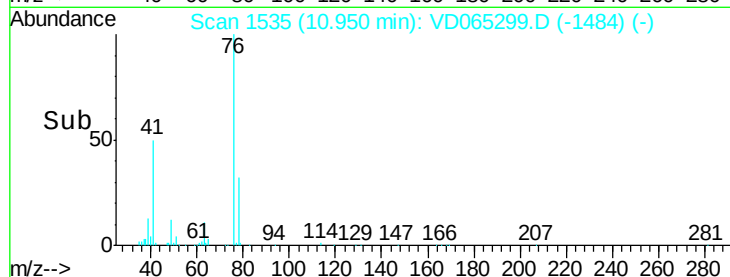
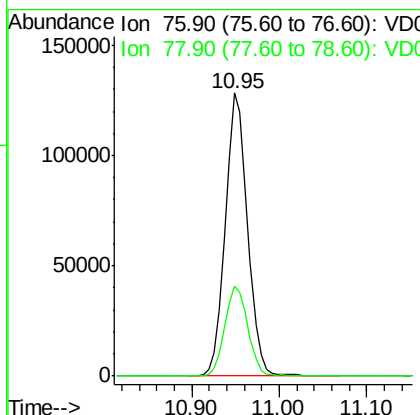
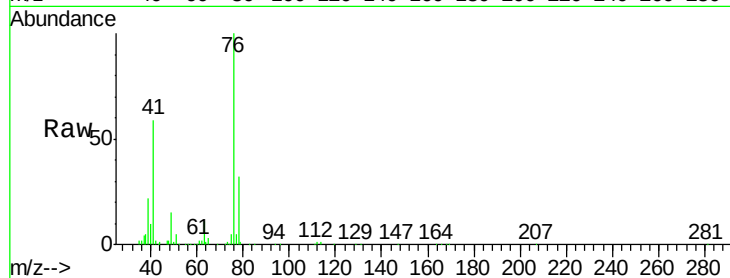
#57
 1,3-Dichloropropane
 Concen: 48.626 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. 0.00 min
 Lab File: VD065299.D
 Acq: 24 Feb 2020 17:21

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-TS001-01MS

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.9	26.3	39.5

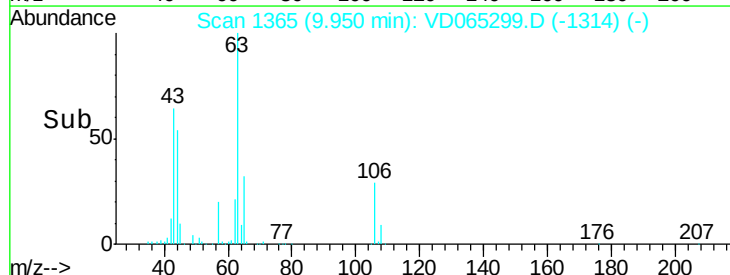
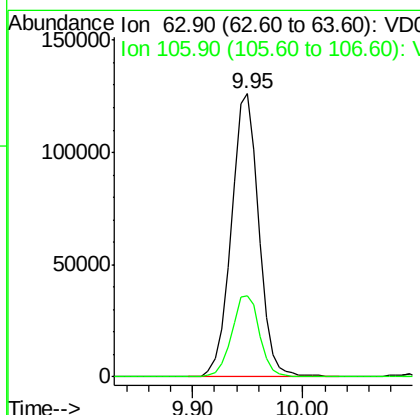
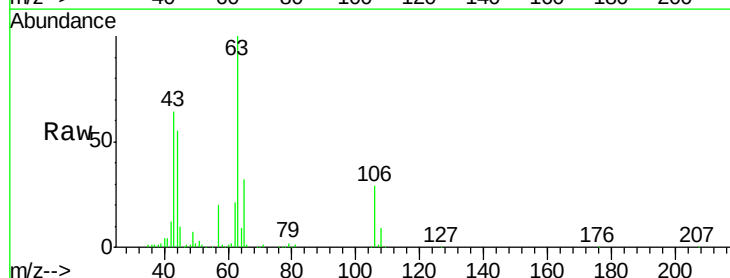
Manual Integrations
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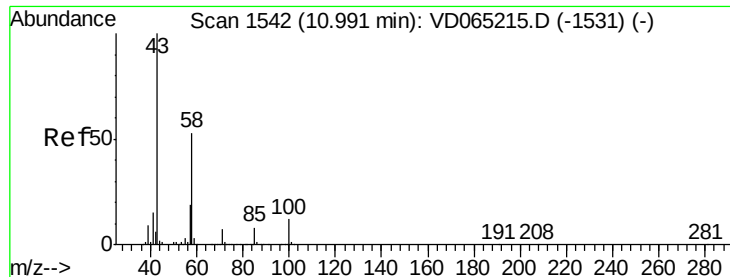
MMDadoda
 2/25/2020 5:15:48 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 223.775 ug/l
 RT: 9.95 min Scan# 1365
 Delta R.T. 0.00 min
 Lab File: VD065299.D
 Acq: 24 Feb 2020 17:21

Tgt Ion	Ratio	Lower	Upper
63	100		
106	29.1	22.8	34.2





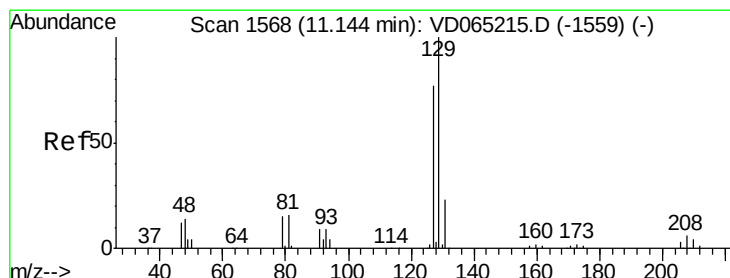
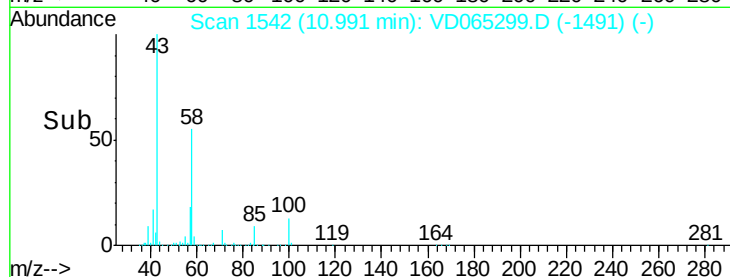
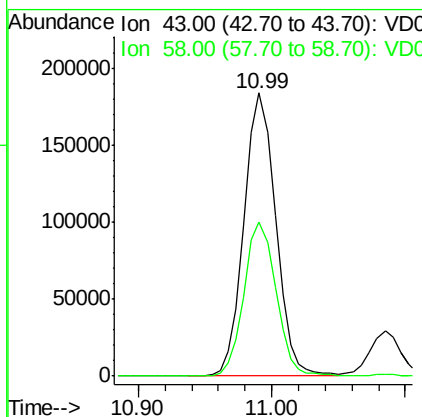
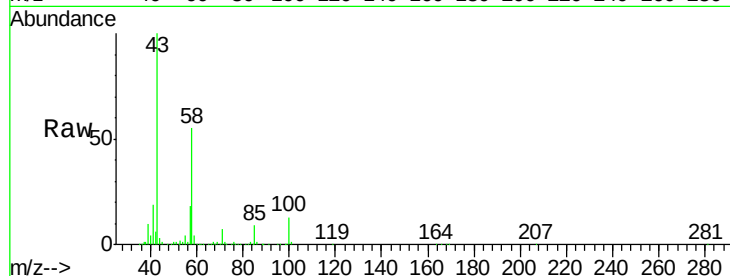
#59
2-Hexanone
Concen: 206.010 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MS

Tot Ion: 43 Resp: 303276
Ion Ratio Lower Upper
43 100
58 55.2 26.3 78.8

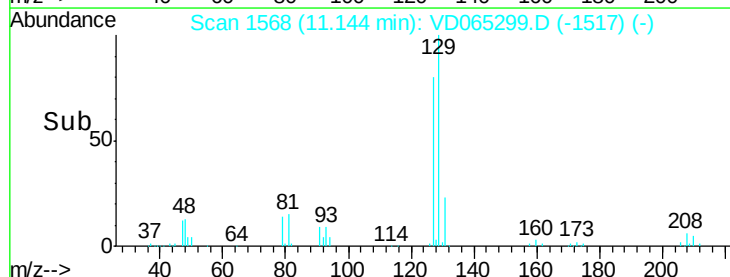
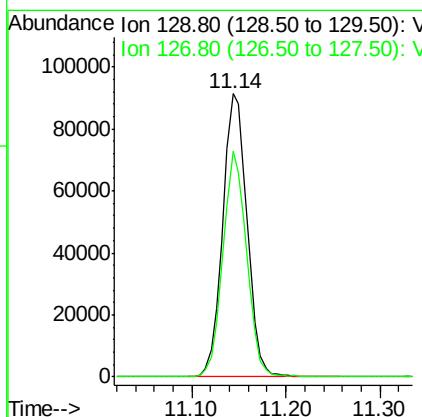
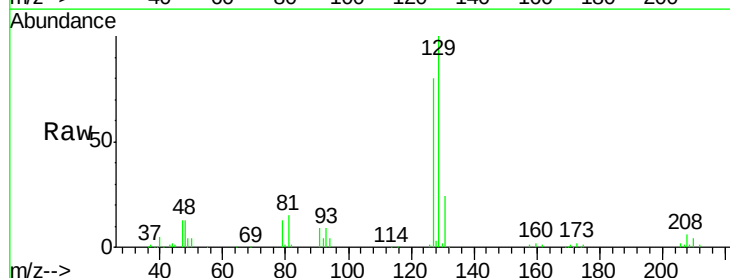
Manual Integrations
APPROVED

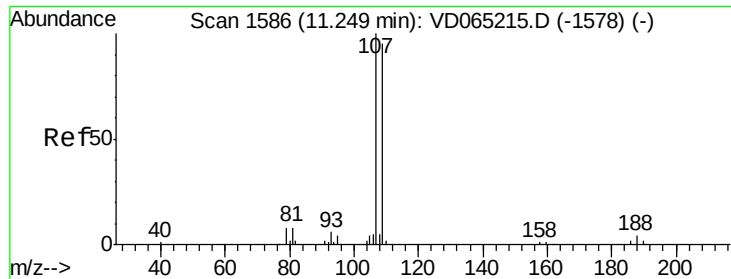
MMDadoda
2/25/2020 5:15:48 PM



#60
Dibromochloromethane
Concen: 47.632 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Tgt Ion: 129 Resp: 165043
Ion Ratio Lower Upper
129 100
127 77.7 38.7 116.1





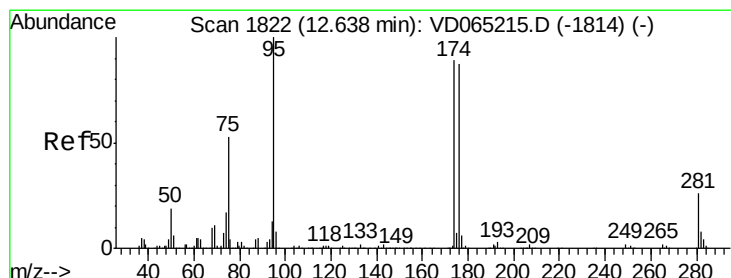
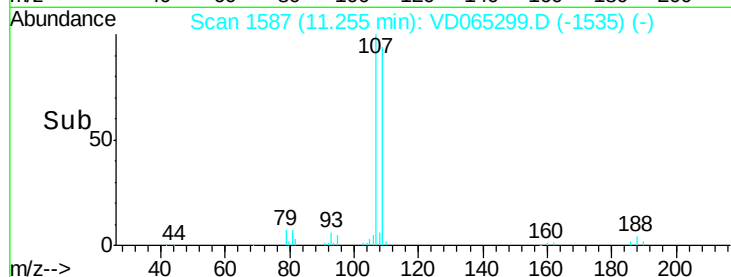
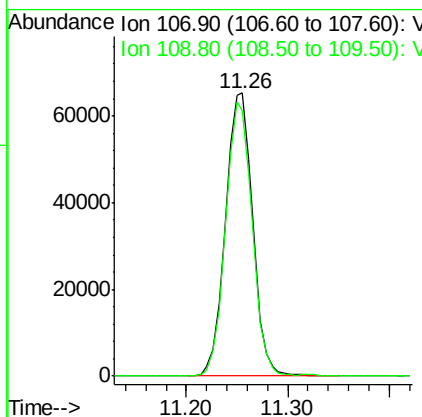
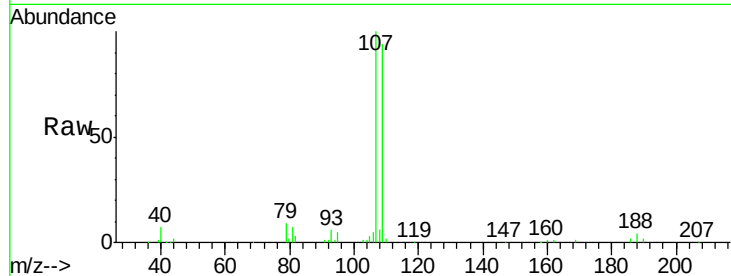
#61
 1,2-Dibromoethane
 Concen: 47.302 ug/l
 RT: 11.26 min Scan# 1587
 Delta R.T. 0.01 min
 Lab File: VD065299.D
 Acq: 24 Feb 2020 17:21

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-TS001-01MS

Tot Ion	Ratio	Resp	Lower	Upper
107	100	121245		
109	94.7	76.2	114.4	

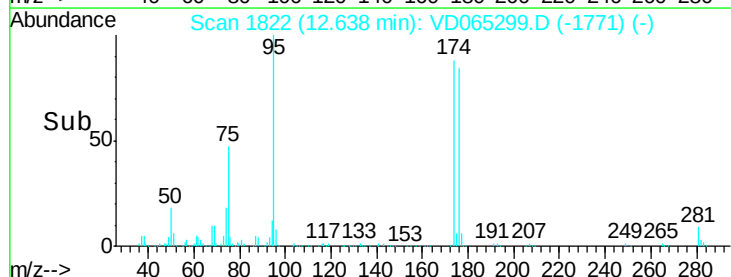
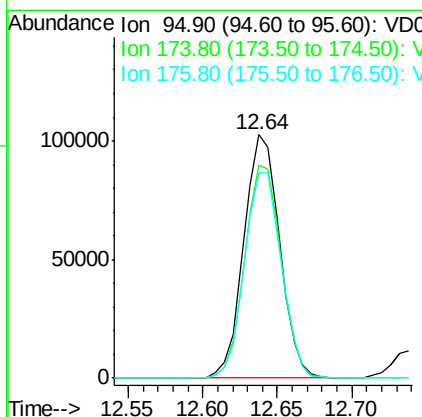
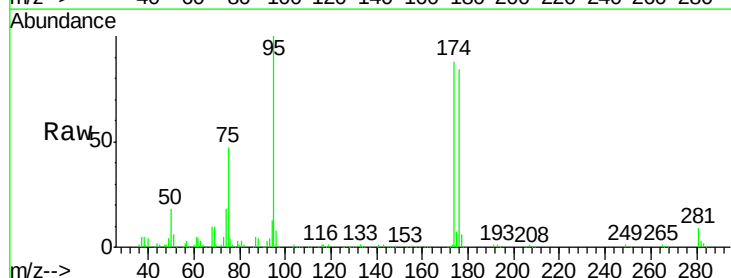
Manual Integrations
 APPROVED

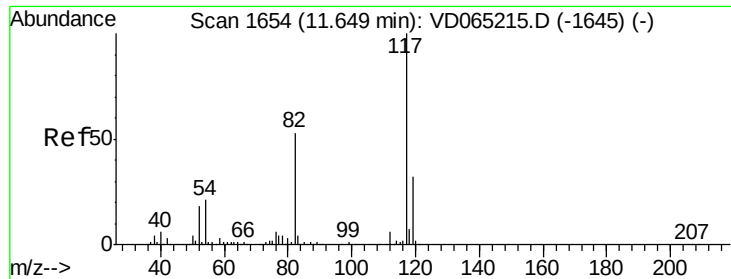
MMDadoda
 2/25/2020 5:15:48 PM



#62
 4-Bromofluorobenzene
 Concen: 42.178 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.00 min
 Lab File: VD065299.D
 Acq: 24 Feb 2020 17:21

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	170488		
174	88.7	0.0	178.0	
176	86.8	0.0	174.4	





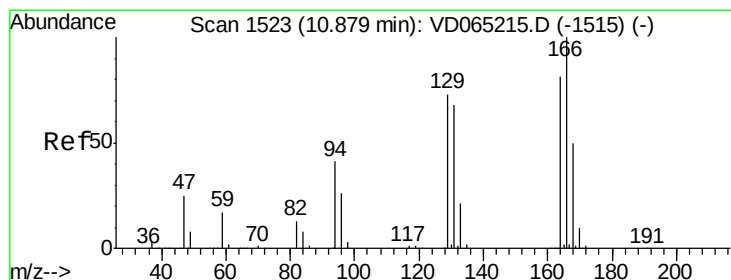
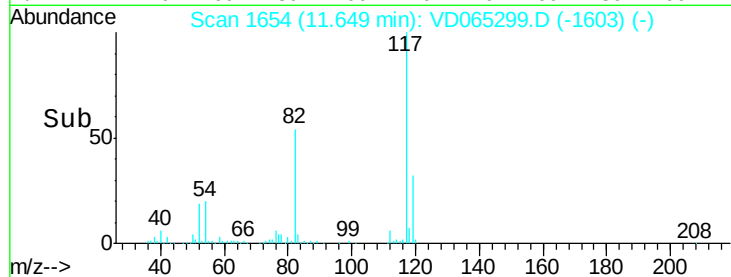
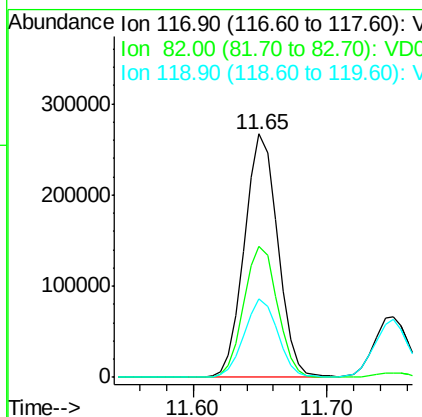
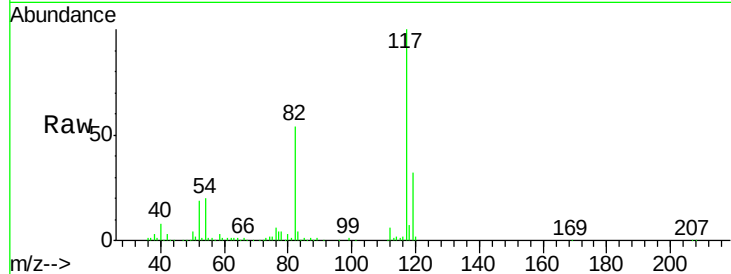
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MS

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.8	42.7	64.1
119	31.9	25.5	38.3

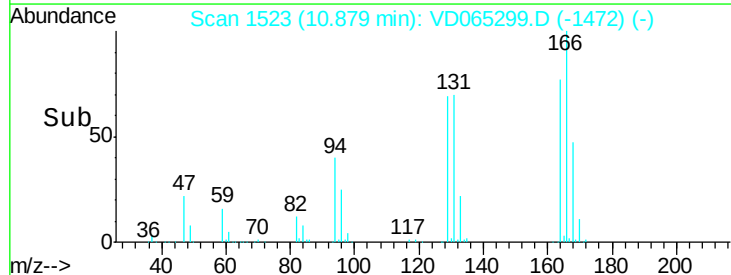
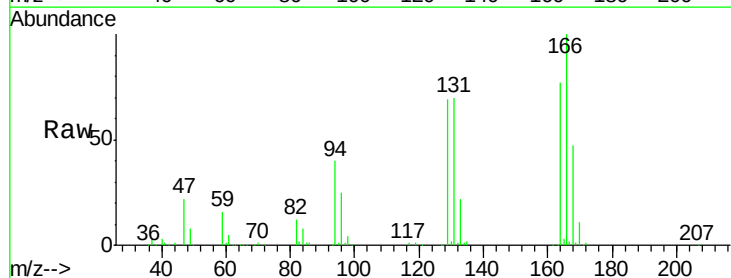
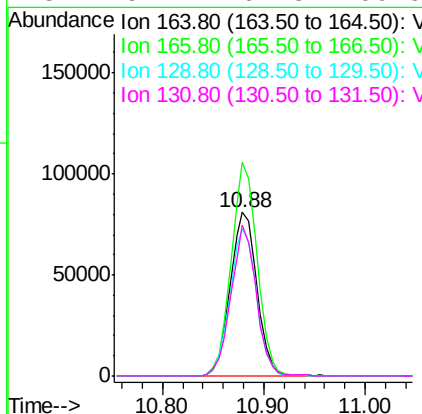
Manual Integrations
APPROVED

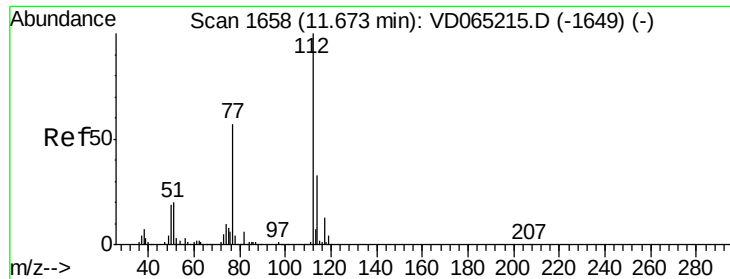
MMDadoda
2/25/2020 5:15:48 PM



#64
Tetrachloroethene
Concen: 45.178 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.6	98.4	147.6
129	90.2	71.6	107.4
131	92.1	67.3	100.9





#65

Chlorobenzene

Concen: 46.858 ug/l

RT: 11.67 min Scan# 1658

Delta R.T. 0.00 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

Instrument :

MSVOA_D

ClientSampleId :

LIED-TS001-01MS

Tot Ion:112 Resp: 434094

Ion Ratio Lower Upper

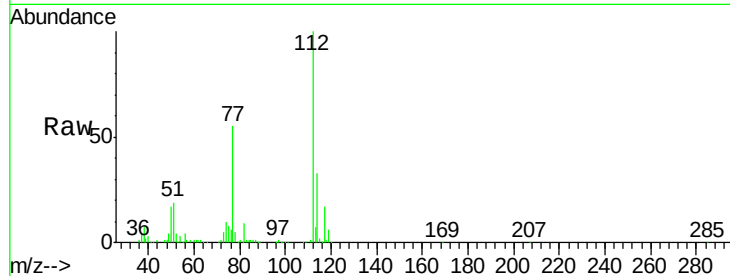
112 100

114 32.6 26.4 39.6

Manual Integrations
APPROVED

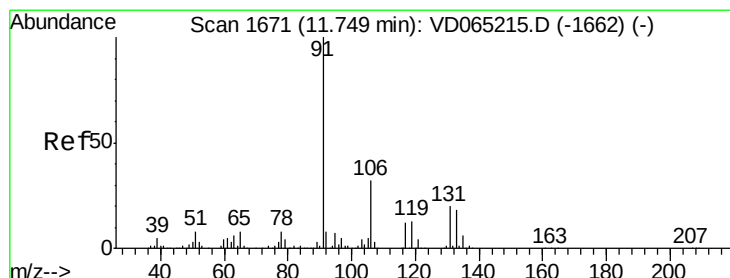
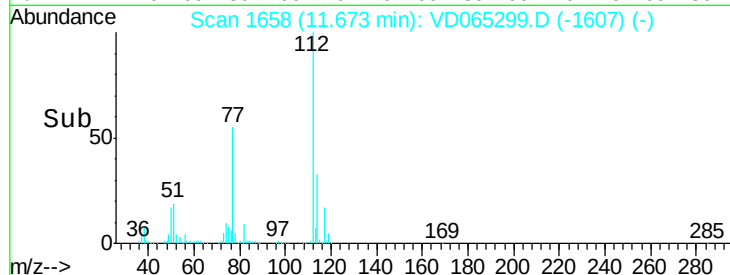
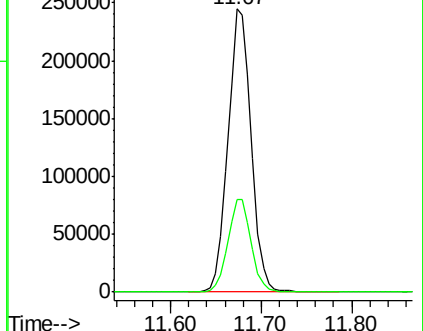
MMDadoda

2/25/2020 5:15:48 PM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 49.811 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

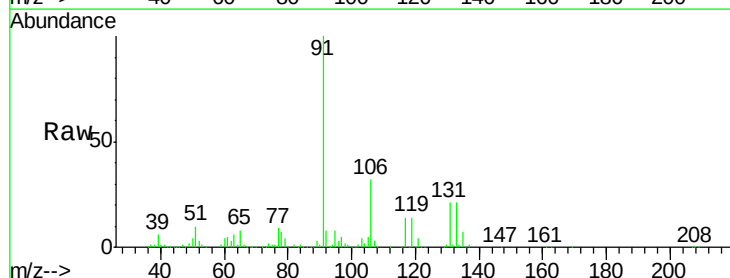
Tgt Ion:131 Resp: 172201

Ion Ratio Lower Upper

131 100

133 96.5 47.7 143.1

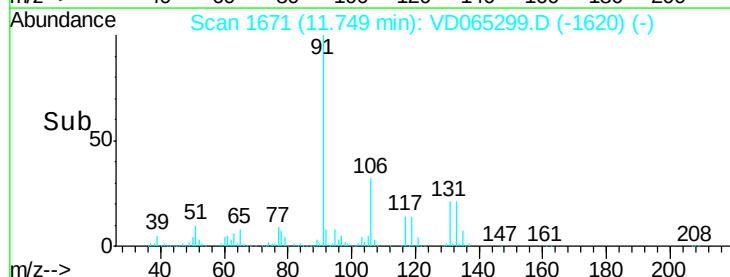
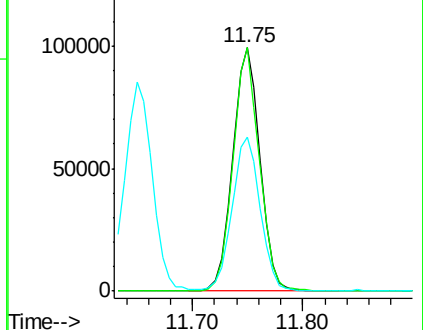
119 65.6 32.7 98.1

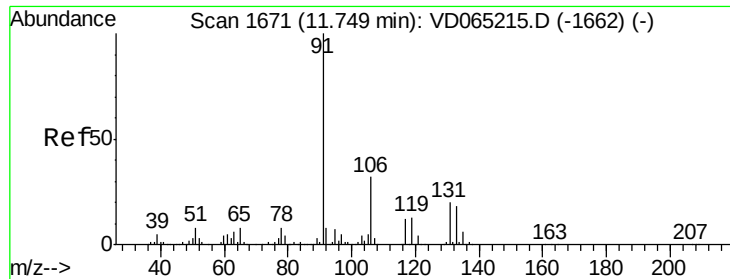


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





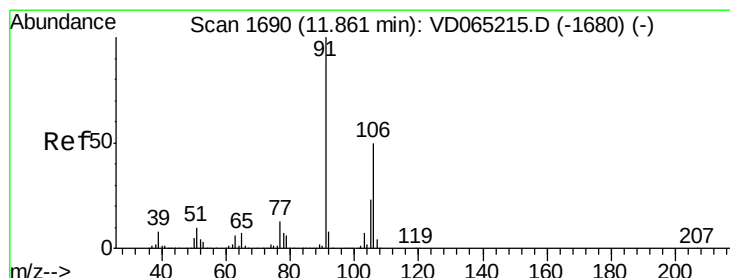
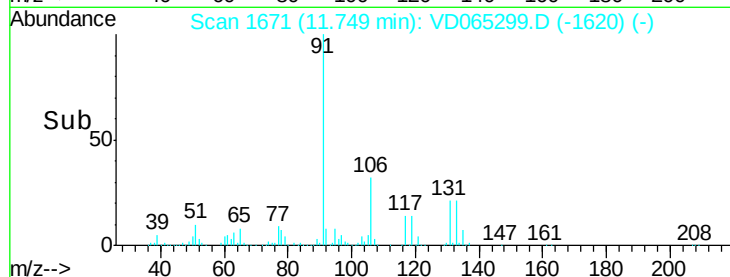
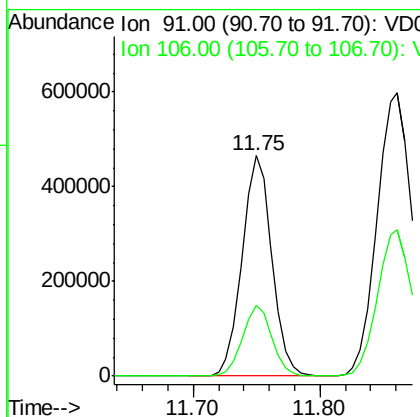
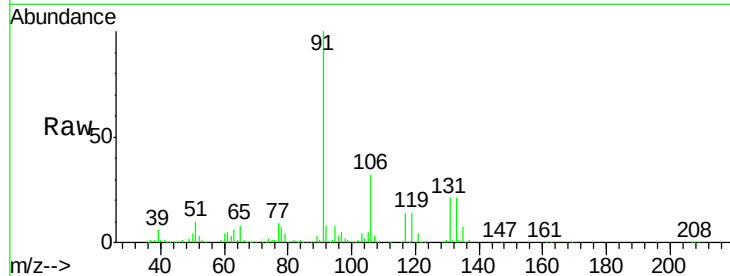
#67
Ethyl Benzene
Concen: 46.812 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MS

Tot Ion: 91 Resp: 759522
Ion Ratio Lower Upper
91 100
106 32.0 25.2 37.8

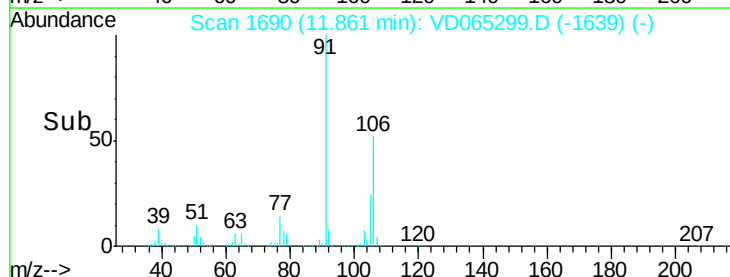
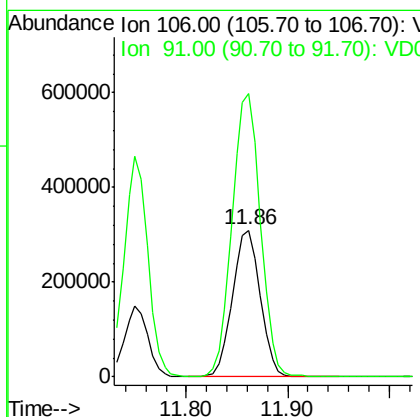
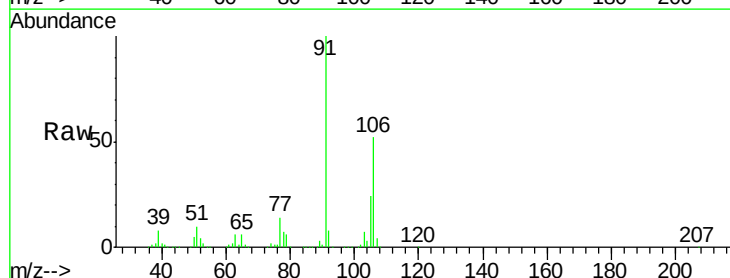
Manual Integrations
APPROVED

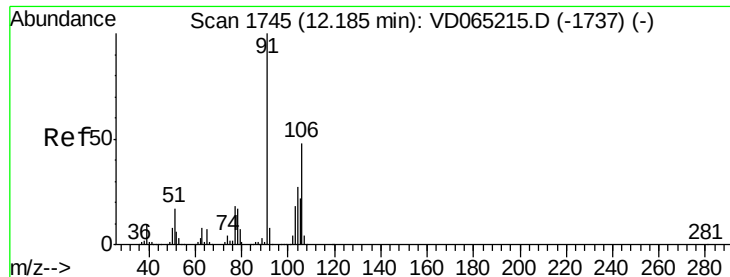
MMDadoda
2/25/2020 5:15:48 PM



#68
m/p-Xylenes
Concen: 94.914 ug/l
RT: 11.86 min Scan# 1690
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Tgt Ion: 106 Resp: 589179
Ion Ratio Lower Upper
106 100
91 196.4 158.2 237.4





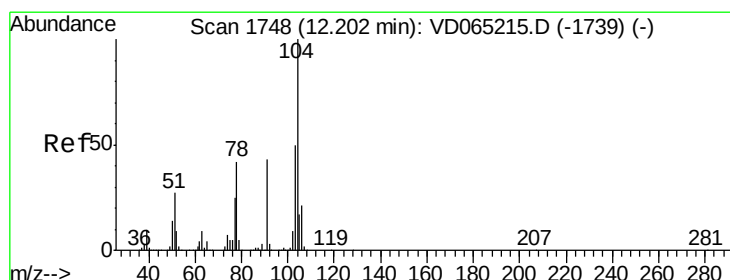
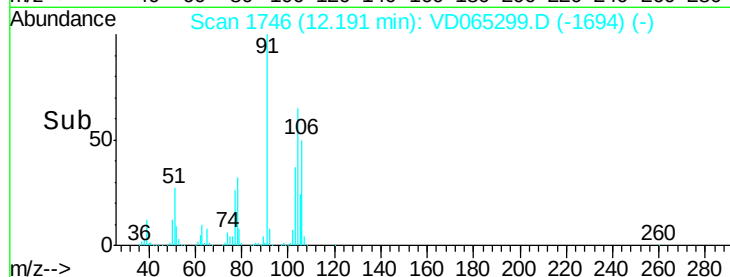
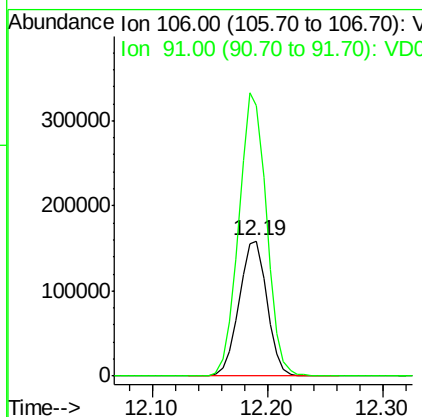
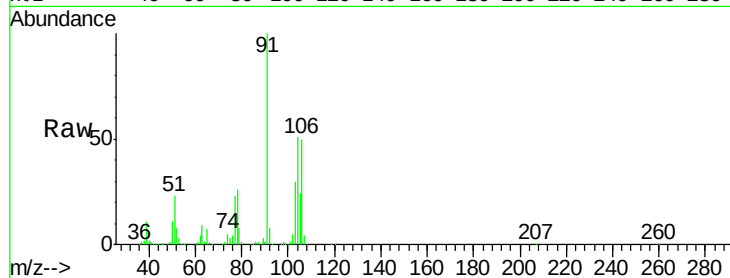
#69
o-Xylene
Concen: 48.582 ug/l
RT: 12.19 min Scan# 1746
Delta R.T. 0.01 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MS

Tot Ion	Ion	Ratio	Lower	Upper
106	106	100		
91	91	207.3	104.7	313.9

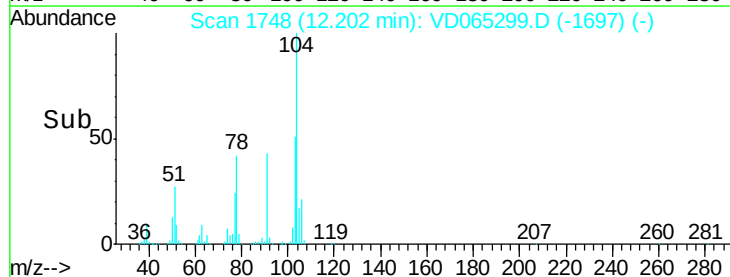
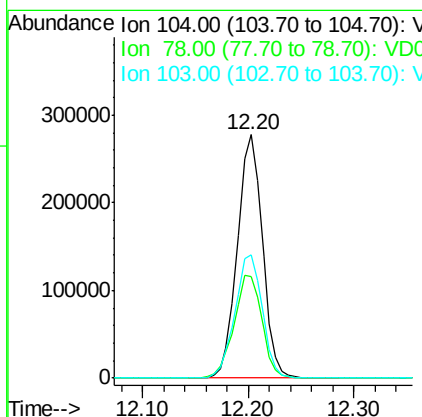
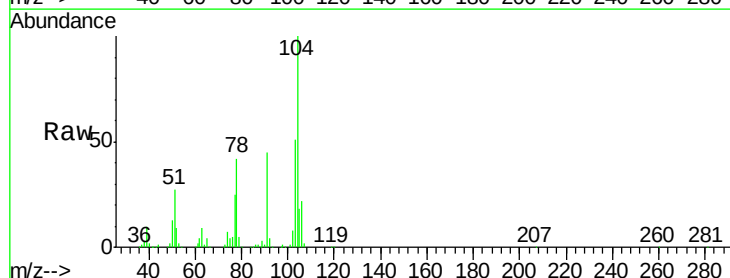
Manual Integrations
APPROVED

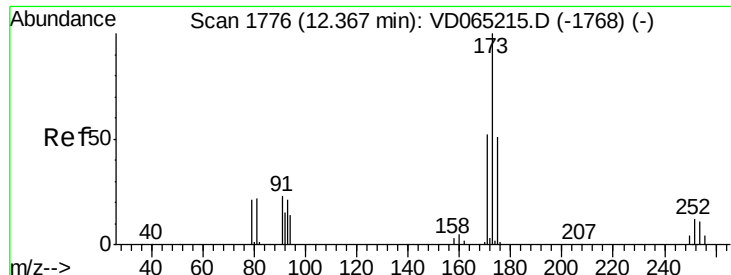
MMDadoda
2/25/2020 5:15:48 PM



#70
Styrene
Concen: 46.725 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Tgt Ion	Ion	Ratio	Lower	Upper
104	104	100		
78	78	46.8	37.8	56.6
103	103	55.2	43.4	65.2





#71

Bromoform

Concen: 47.609 ug/l

RT: 12.37 min Scan# 1776

Delta R.T. 0.00 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

Instrument :

MSVOA_D

ClientSampleId :

LIED-TS001-01MS

Tot Ion:173 Resp: 91330

Ion Ratio Lower Upper

173 100

175 49.2 24.4 73.4

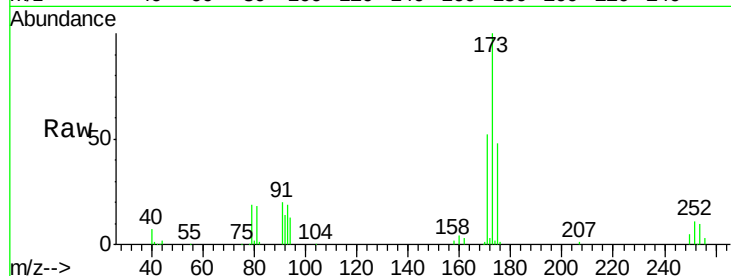
254 0.0 0.0 0.0

Manual Integrations

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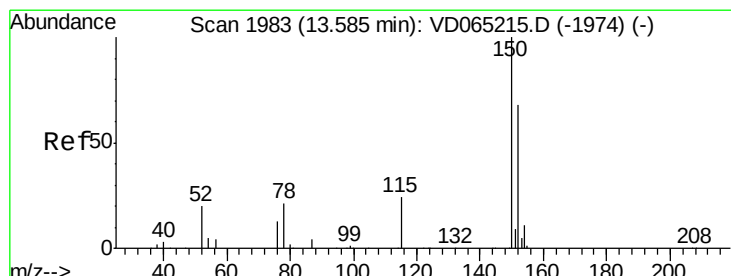
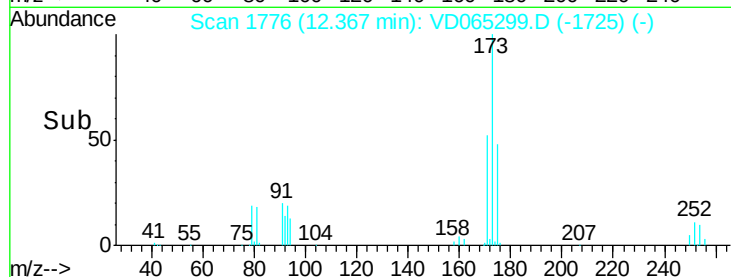
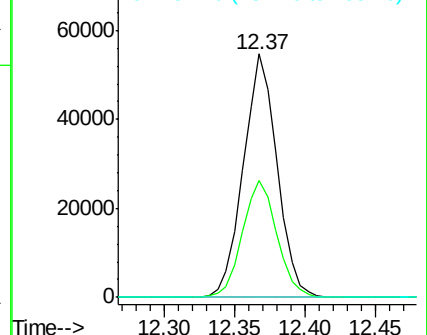
2/25/2020 5:15:48 PM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

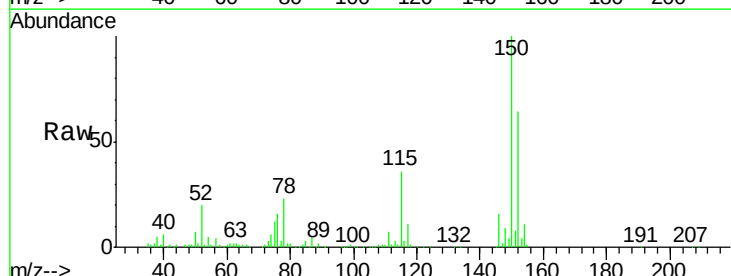
Tgt Ion:152 Resp: 177356

Ion Ratio Lower Upper

152 100

115 54.8 27.6 82.8

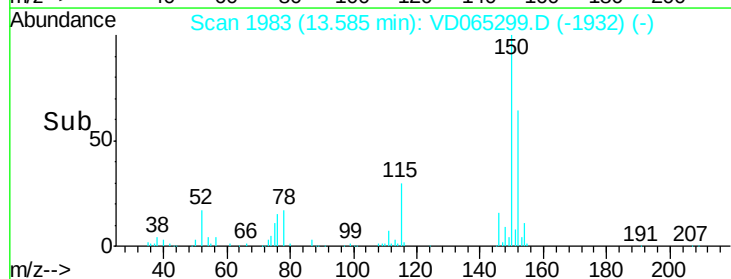
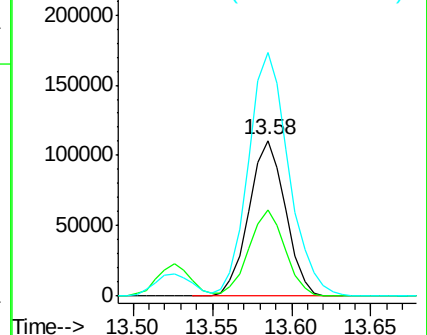
150 172.7 0.0 347.4

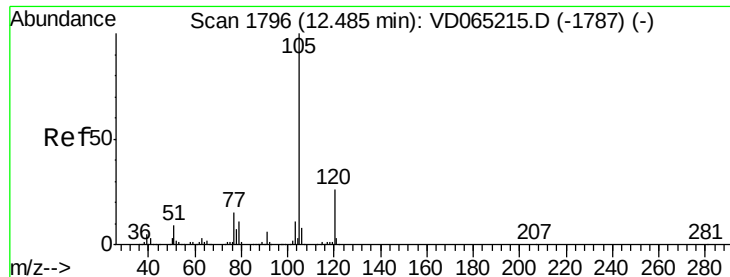


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 54.174 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

Instrument :

MSVOA_D

ClientSampleId :

LIED-TS001-01MS

Tot Ion: 105 Resp: 636095

Ion Ratio Lower Upper

105 100

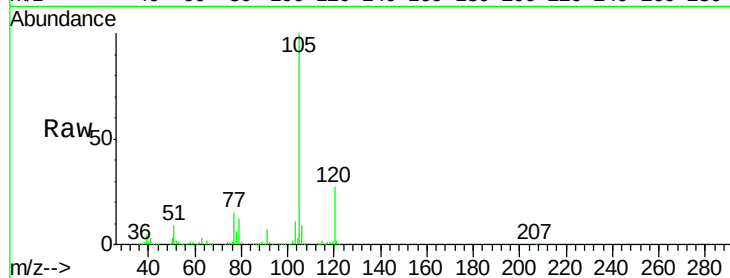
120 27.1 13.3 39.9

Manual Integrations

APPROVED

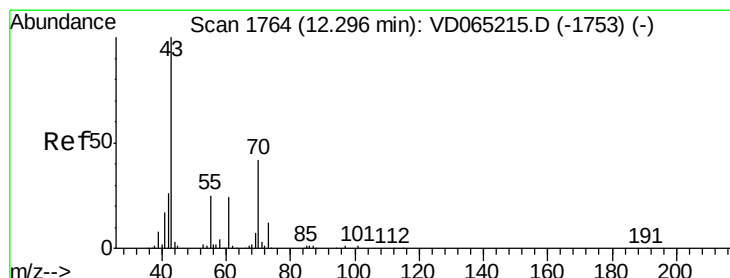
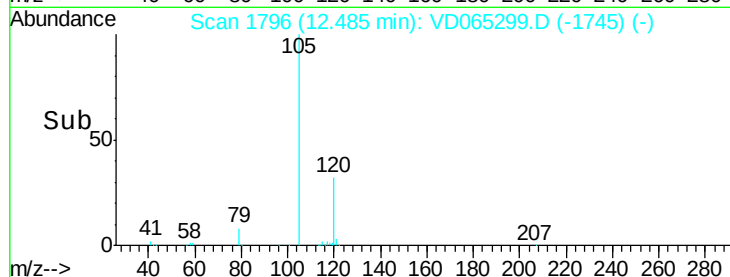
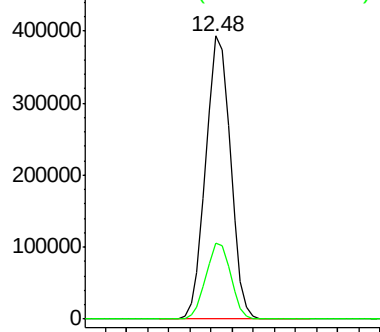
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 9.848 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

Tgt Ion: 43 Resp: 25693

Ion Ratio Lower Upper

43 100

70 47.1 33.7 50.5

55 31.2 20.7 31.1#

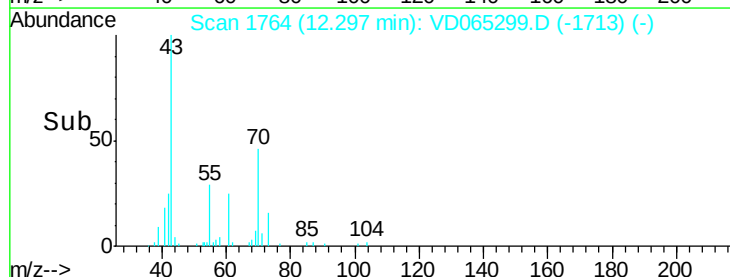
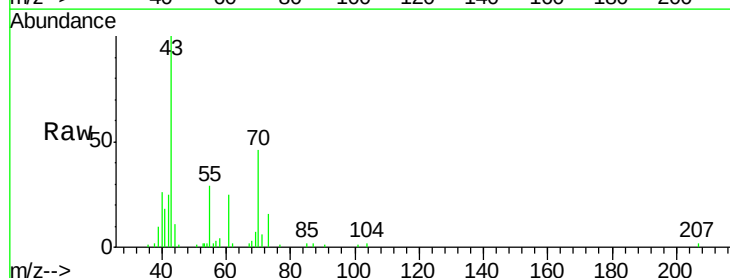
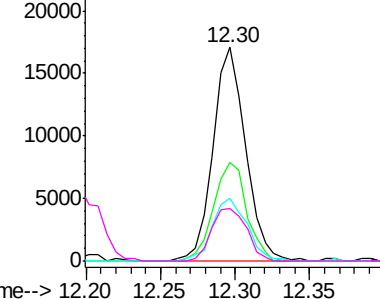
61 26.7 19.0 28.4

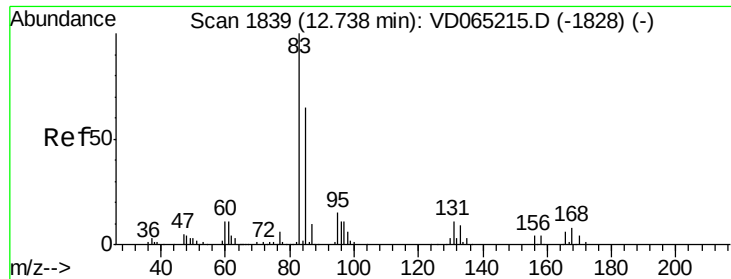
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 60.509 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

Instrument :

MSVOA_D

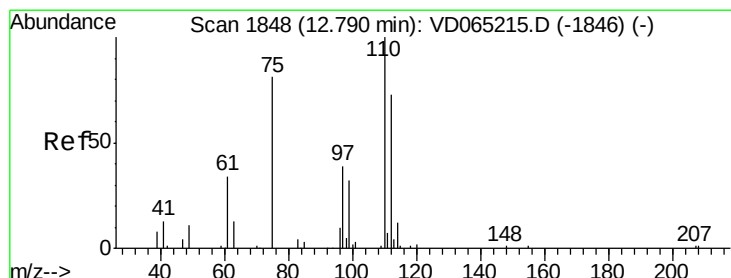
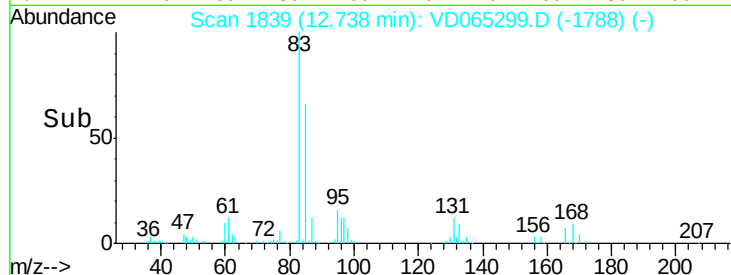
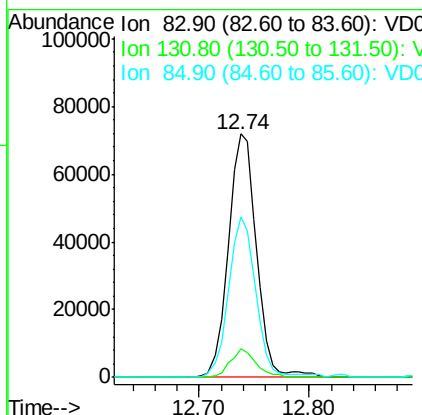
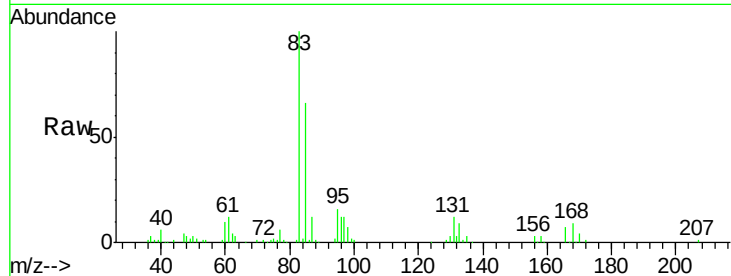
ClientSampleId :

LIED-TS001-01MS

Tot Ion:	83	Resp:	128226
Ion Ratio	Lower	Upper	
83	100		
131	10.7	5.4	16.2
85	63.3	31.6	94.8

Manual Integrations
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2/25/2020 5:15:48 PM



#76

1,2,3-Trichloropropane

Concen: 57.437 ug/l m

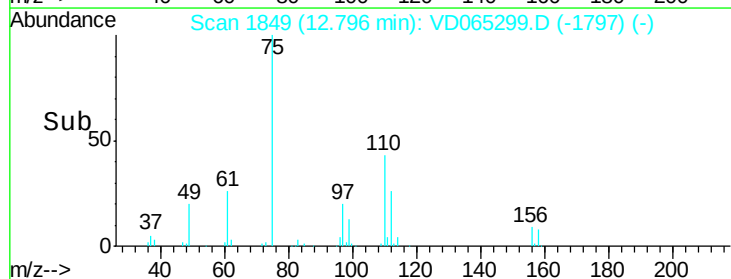
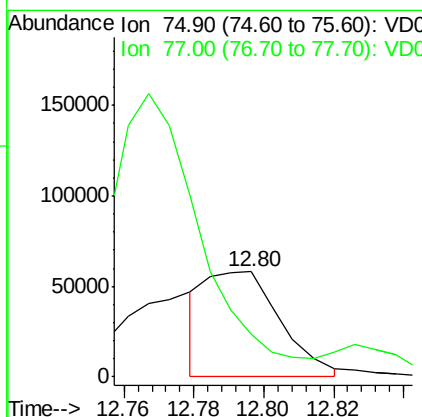
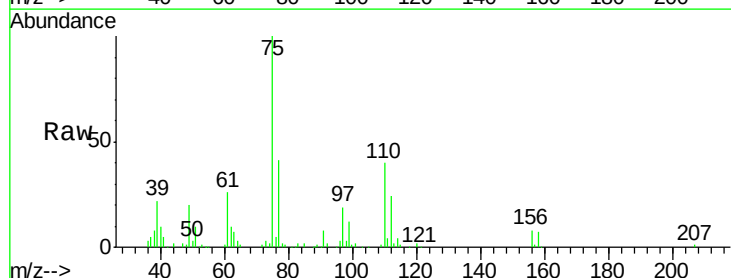
RT: 12.80 min Scan# 1849

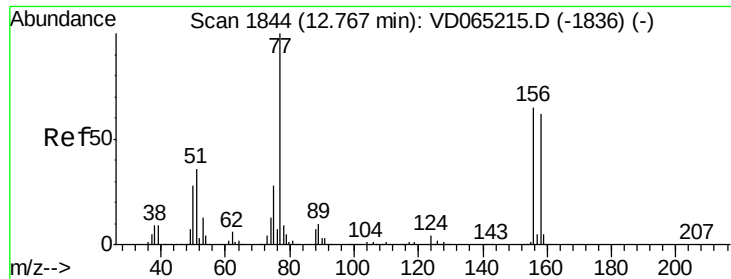
Delta R.T. 0.01 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

Tgt Ion:	75	Resp:	86672
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 58.037 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.00 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

Instrument :

MSVOA_D

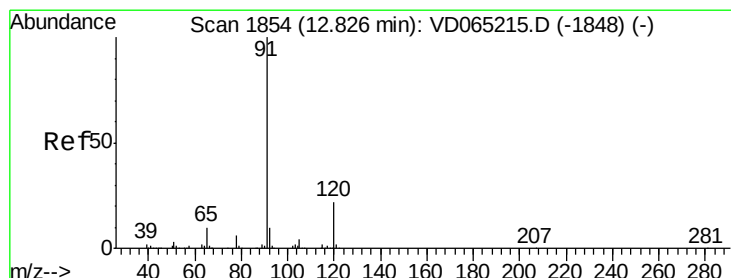
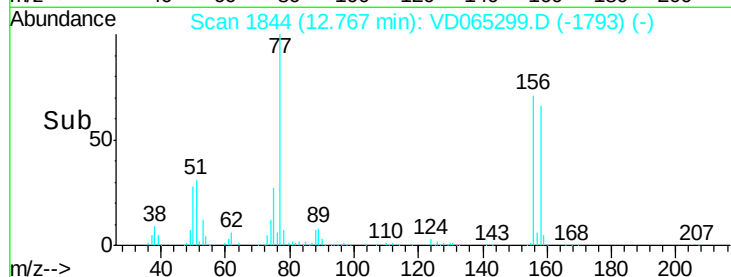
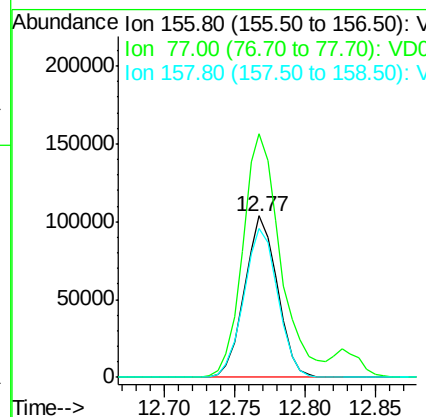
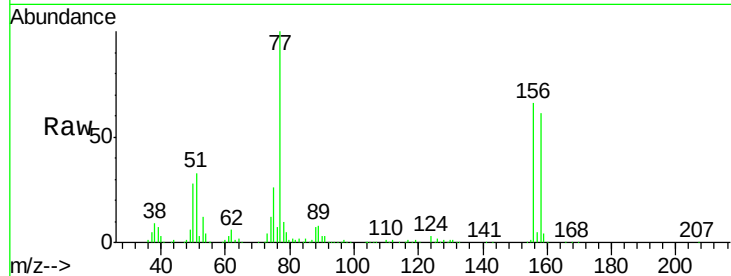
ClientSampleId :

LIED-TS001-01MS

Tot Ion:	156	Resp:	169217
Ion Ratio	Lower	Upper	
156	100		
77	173.1	86.6	259.7
158	95.4	48.1	144.3

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#78

n-propylbenzene

Concen: 49.535 ug/l

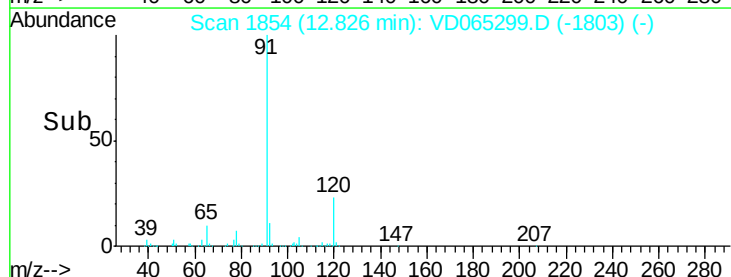
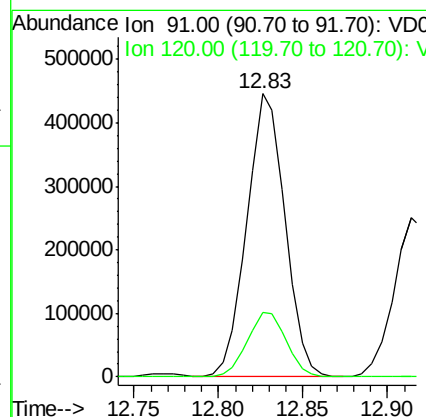
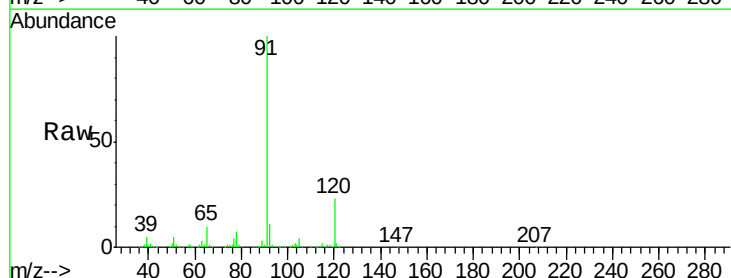
RT: 12.83 min Scan# 1854

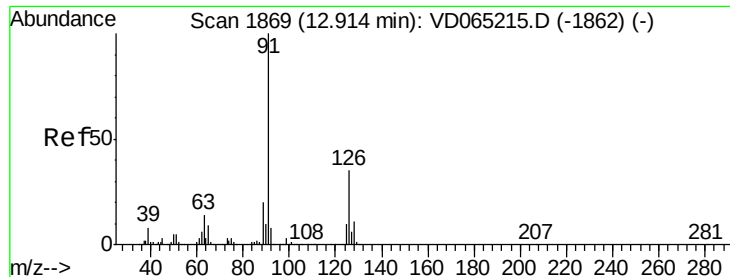
Delta R.T. 0.00 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

Tgt Ion:	91	Resp:	698965
Ion Ratio	Lower	Upper	
91	100		
120	23.3	11.5	34.5





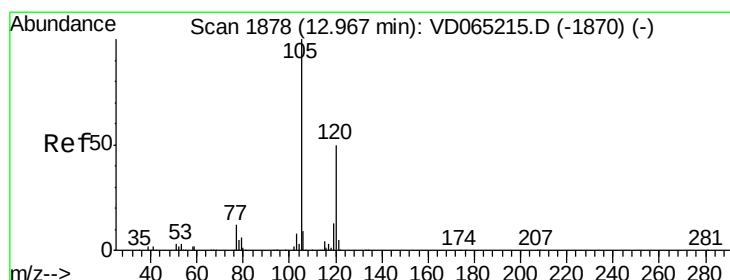
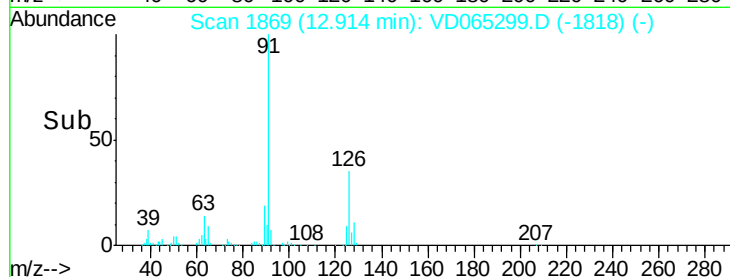
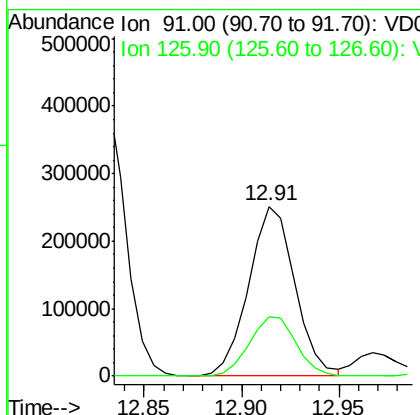
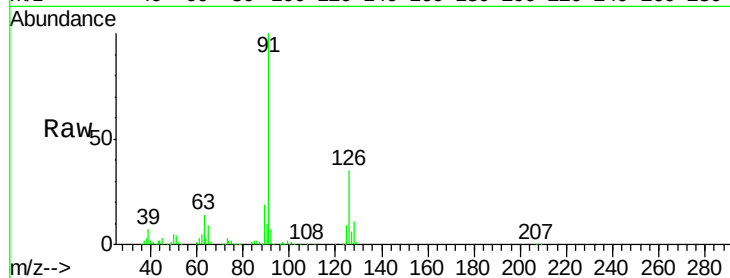
#79
 2-Chlorotoluene
 Concen: 52.091 ug/l
 RT: 12.91 min Scan# 1869
 Delta R.T. 0.00 min
 Lab File: VD065299.D
 Acq: 24 Feb 2020 17:21

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-TS001-01MS

Tot Ion: 91 Resp: 411767
 Ion Ratio Lower Upper
 91 100
 126 35.4 17.5 52.6

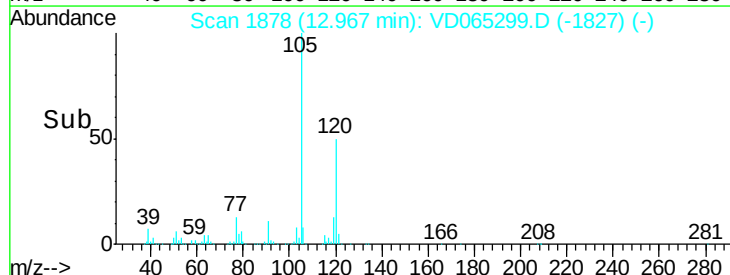
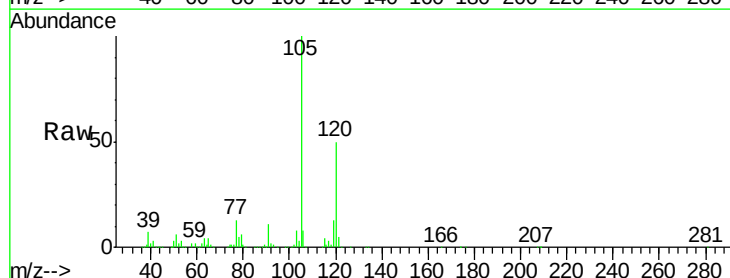
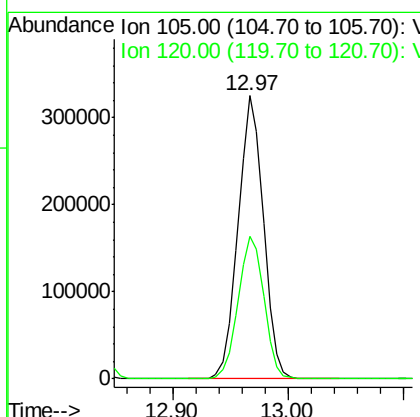
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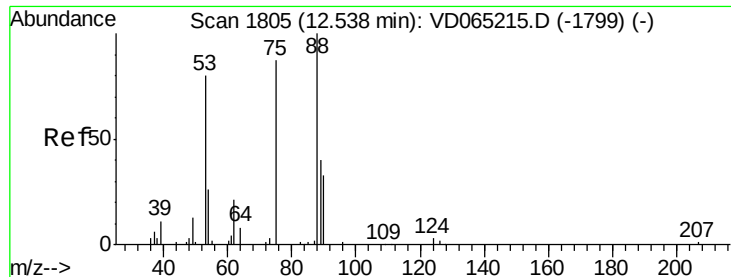
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#80
 1,3,5-Trimethylbenzene
 Concen: 51.091 ug/l
 RT: 12.97 min Scan# 1878
 Delta R.T. 0.00 min
 Lab File: VD065299.D
 Acq: 24 Feb 2020 17:21

Tgt Ion: 105 Resp: 494099
 Ion Ratio Lower Upper
 105 100
 120 51.5 25.4 76.4





#81

trans-1,4-Dichloro-2-butene

Concen: 58.175 ug/l

RT: 12.54 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

Instrument :

MSVOA_D

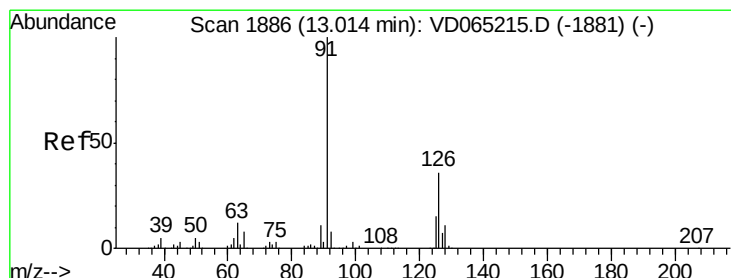
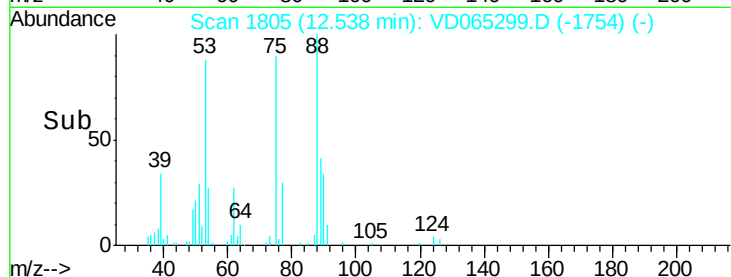
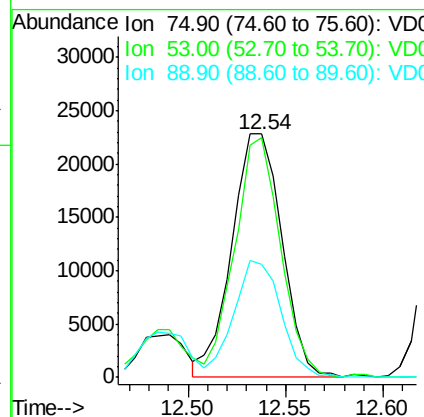
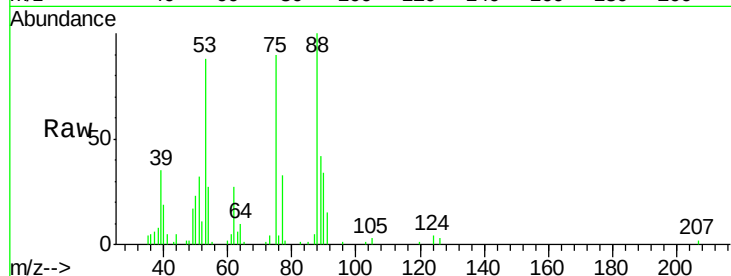
ClientSampleId :

LIED-TS001-01MS

Tot Ion:	75	Resp:	40657
Ion	Ratio	Lower	Upper
75	100		
53	89.7	77.6	116.4
89	44.8	37.2	55.8

Manual Integrations
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#82

4-Chlorotoluene

Concen: 51.256 ug/l

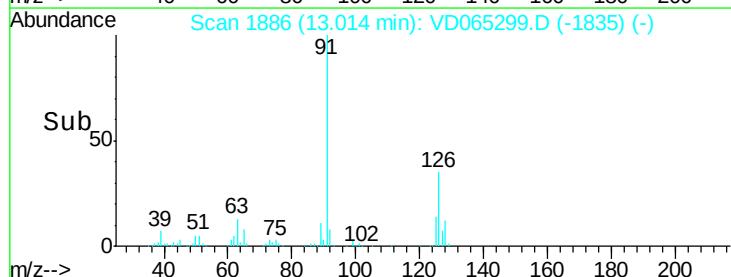
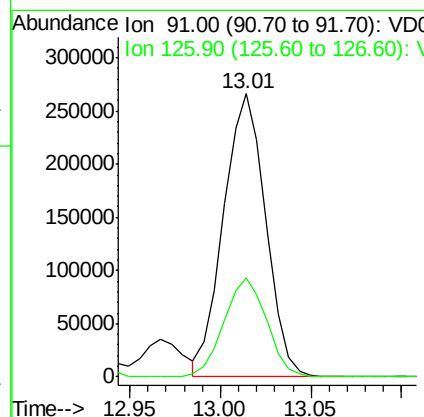
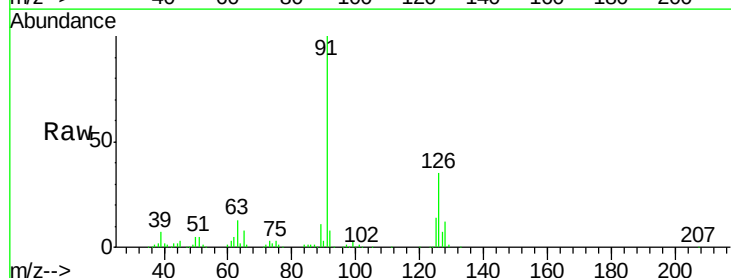
RT: 13.01 min Scan# 1886

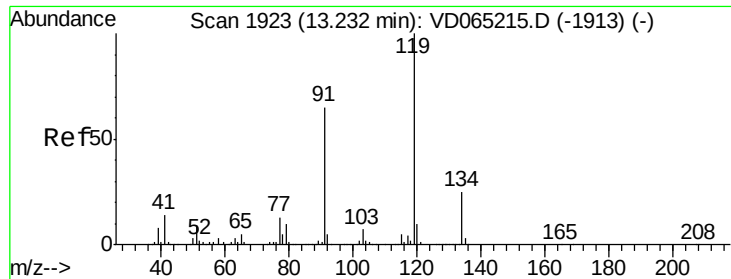
Delta R.T. 0.00 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

Tgt Ion:	91	Resp:	430141
Ion	Ratio	Lower	Upper
91	100		
126	35.3	17.4	52.3





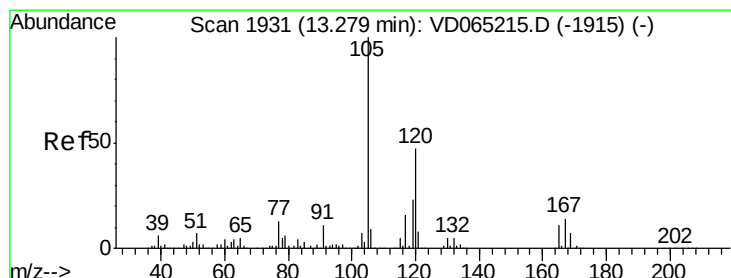
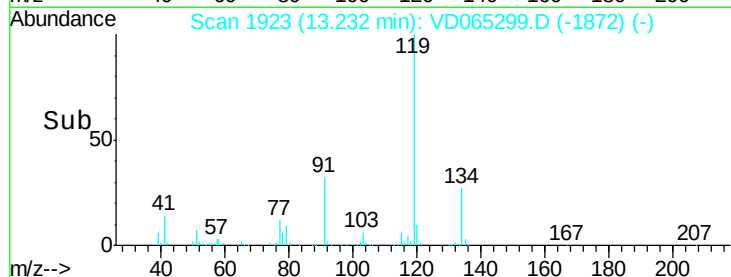
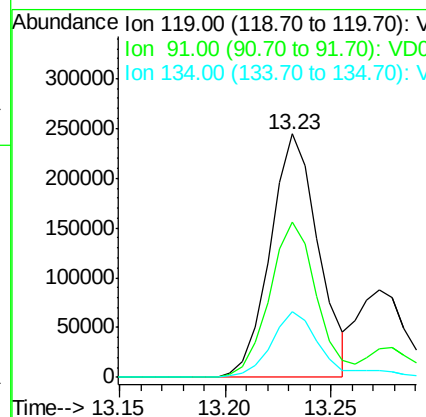
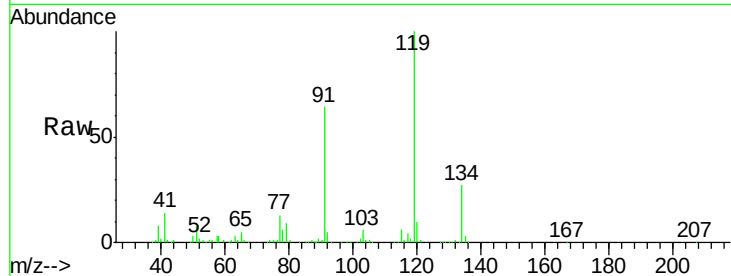
#83
 tert-Butylbenzene
 Concen: 47.863 ug/l
 RT: 13.23 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VD065299.D
 Acq: 24 Feb 2020 17:21

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-TS001-01MS

Tot Ion	Ratio	Resp	Lower	Upper
119	100	387953		
91	63.0		31.9	95.5
134	28.5		13.8	41.3

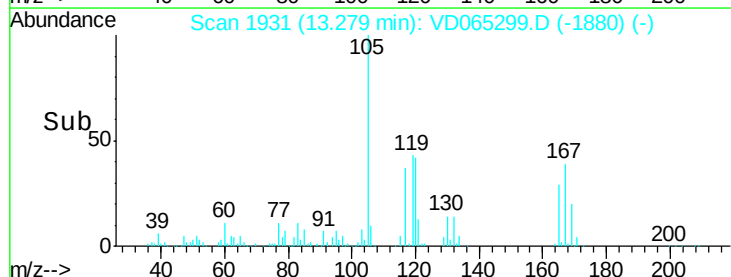
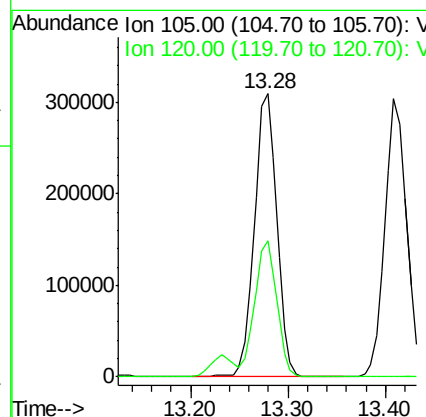
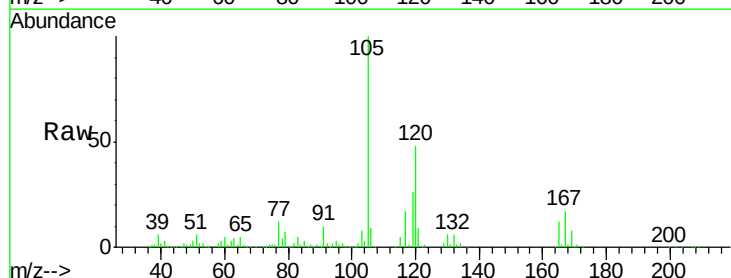
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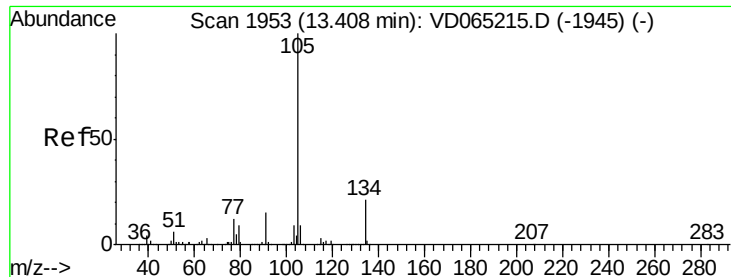
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#84
 1,2,4-Trimethylbenzene
 Concen: 51.240 ug/l
 RT: 13.28 min Scan# 1931
 Delta R.T. 0.00 min
 Lab File: VD065299.D
 Acq: 24 Feb 2020 17:21

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	495992		
120	47.3		23.3	69.9





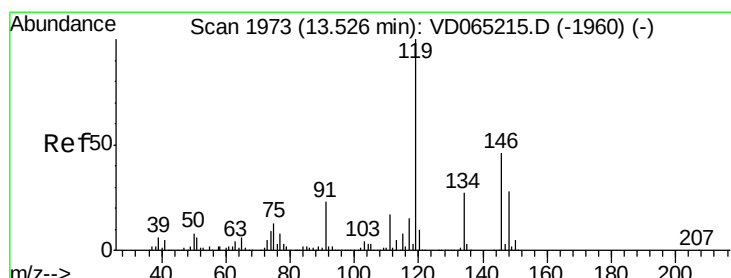
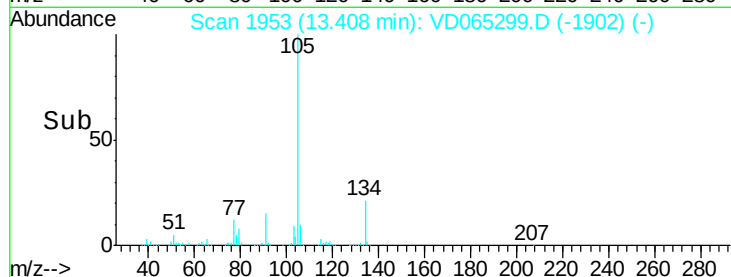
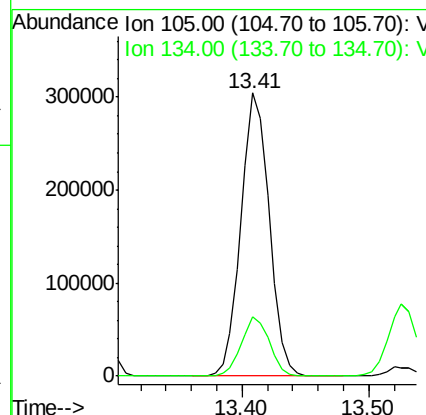
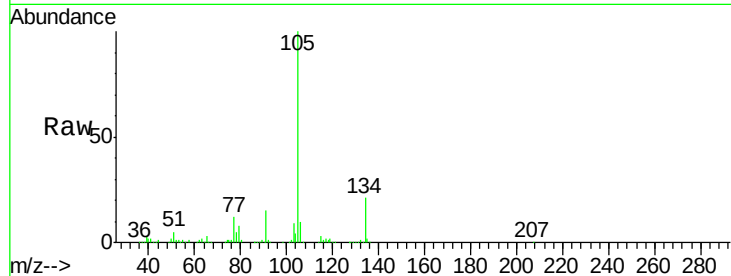
#85
 sec-Butylbenzene
 Concen: 40.196 ug/l
 RT: 13.41 min Scan# 1953
 Delta R.T. 0.00 min
 Lab File: VD065299.D
 Acq: 24 Feb 2020 17:21

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-TS001-01MS

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.7	10.3	30.9

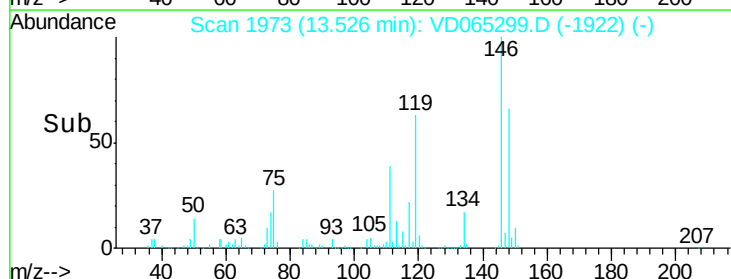
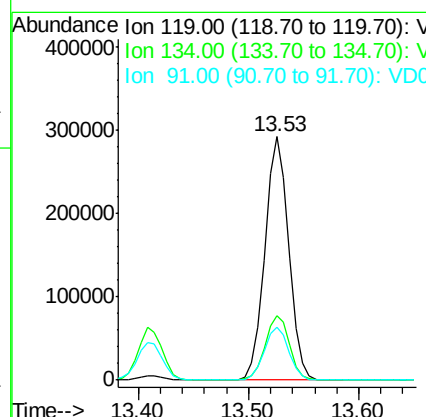
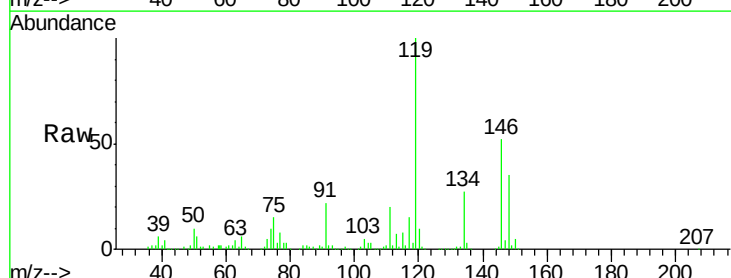
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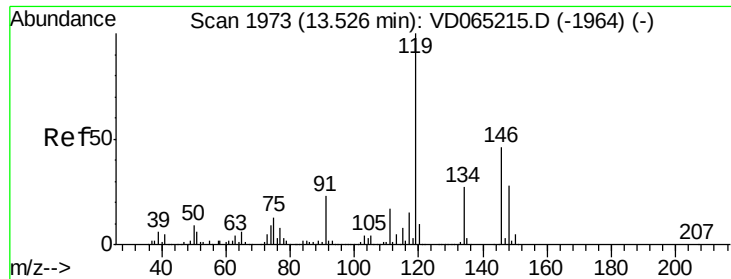
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#86
 p-Isopropyltoluene
 Concen: 41.382 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: VD065299.D
 Acq: 24 Feb 2020 17:21

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.9	13.3	39.8
91	22.2	11.1	33.1





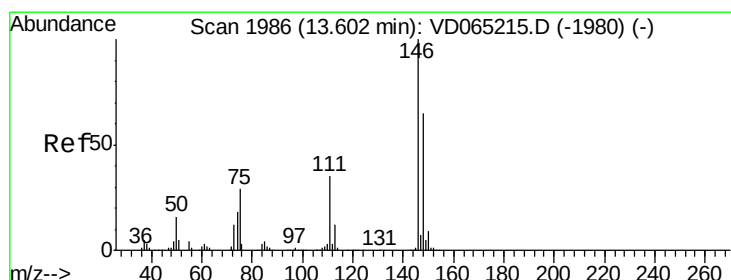
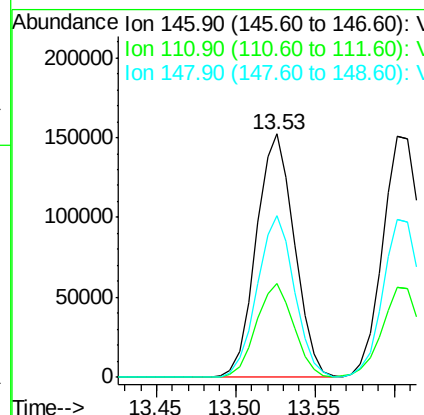
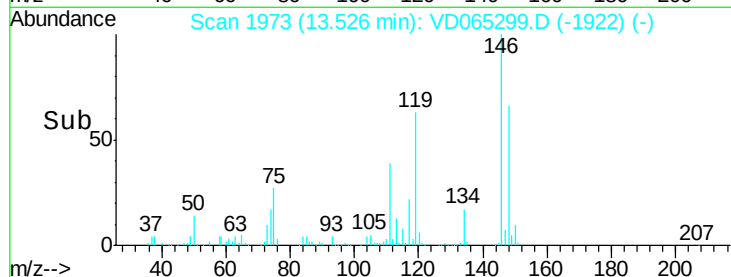
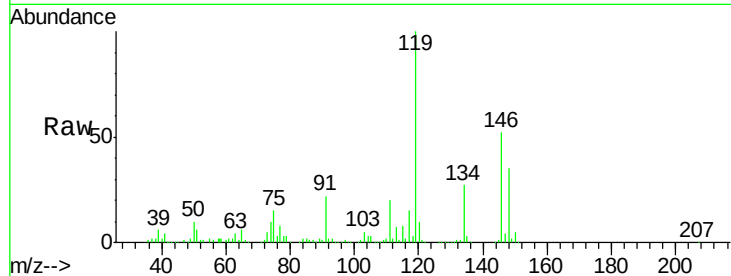
#87
 1,3-Dichlorobenzene
 Concen: 45.261 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: VD065299.D
 Acq: 24 Feb 2020 17:21

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-TS001-01MS

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.8	18.6	55.8
148	65.0	31.4	94.3

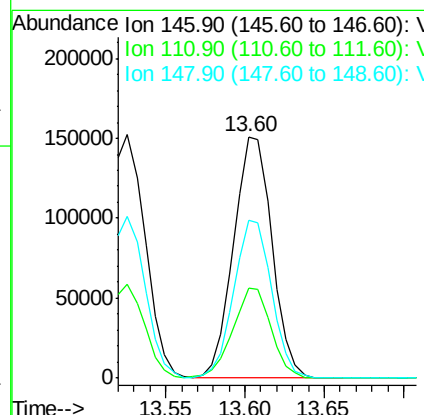
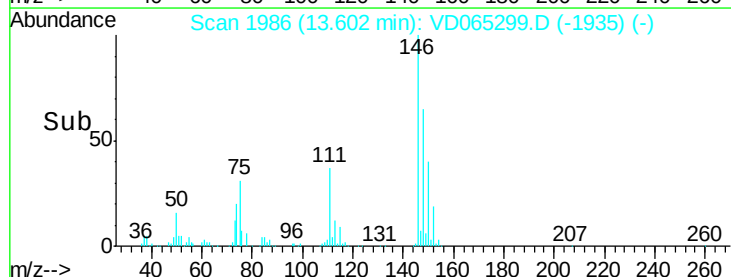
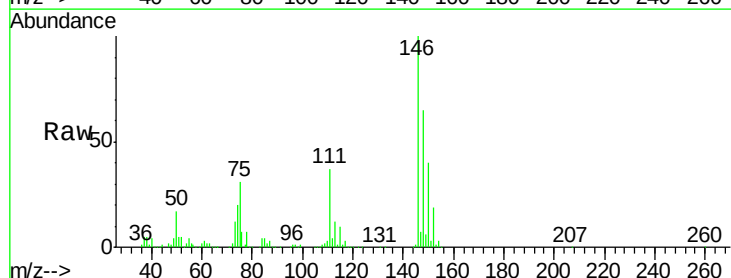
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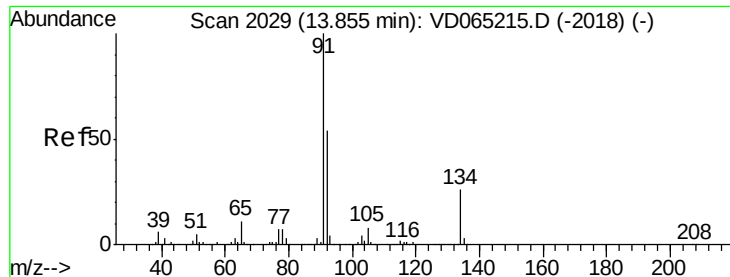
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#88
 1,4-Dichlorobenzene
 Concen: 45.567 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. 0.00 min
 Lab File: VD065299.D
 Acq: 24 Feb 2020 17:21

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.5	18.4	55.2
148	64.5	32.1	96.5





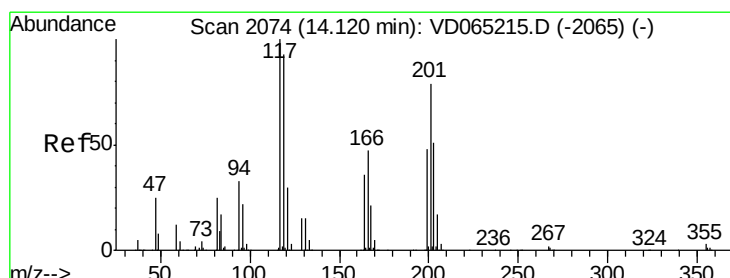
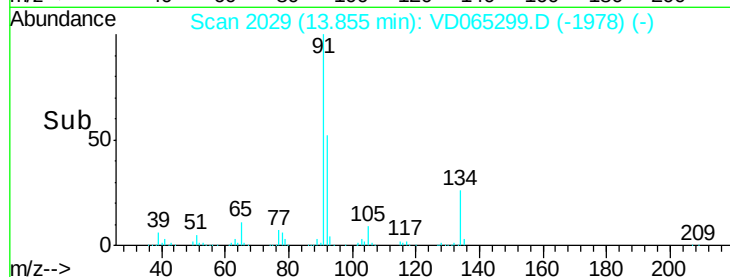
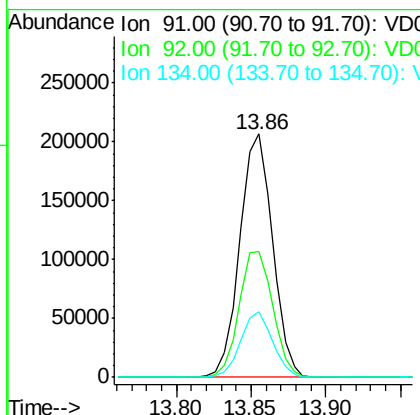
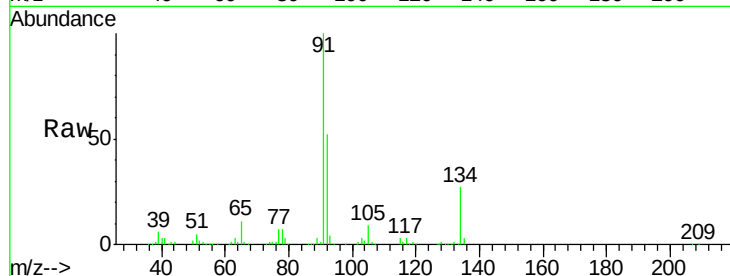
#89
n-Butylbenzene
Concen: 32.062 ug/l
RT: 13.86 min Scan# 2029
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MS

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.2	27.0	80.8
134	26.2	13.5	40.4

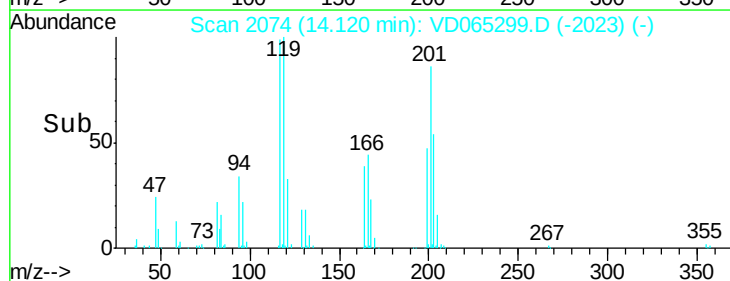
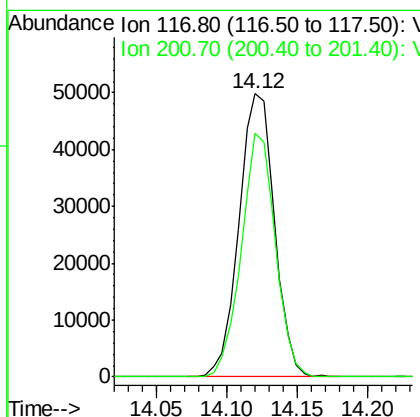
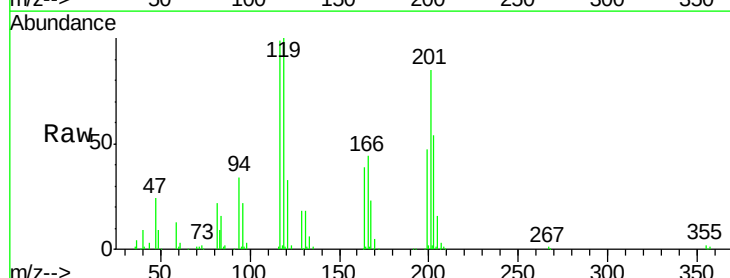
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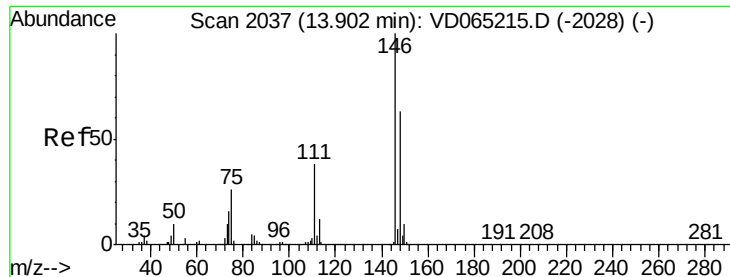
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#90
Hexachloroethane
Concen: 40.411 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Tgt Ion	Ratio	Lower	Upper
117	100		
201	82.7	41.3	124.1





#91

1,2-Dichlorobenzene

Concen: 46.175 ug/l

RT: 13.90 min Scan# 2037

Delta R.T. 0.00 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

Instrument :

MSVOA_D

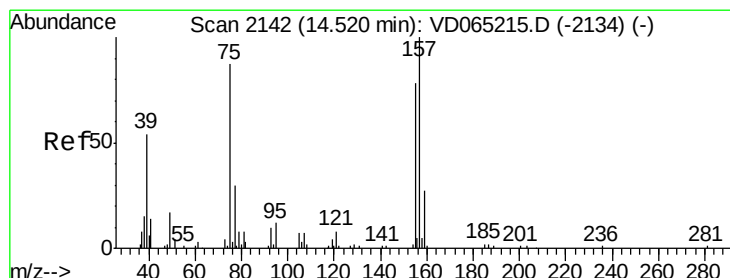
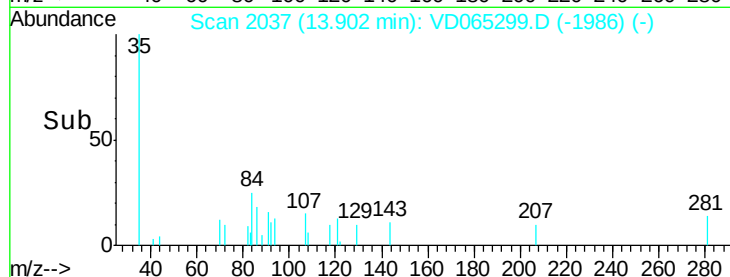
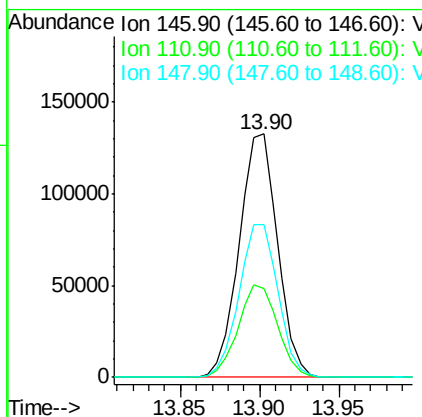
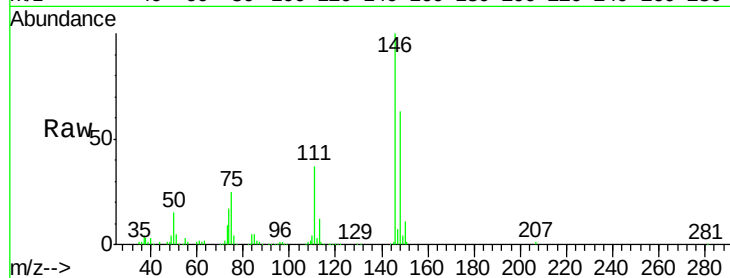
ClientSampleId :

LIED-TS001-01MS

Tot Ion:	146	Resp:	223480
Ion Ratio		Lower	Upper
146	100		
111	39.2	19.7	59.0
148	63.9	32.0	96.2

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 51.368 ug/l

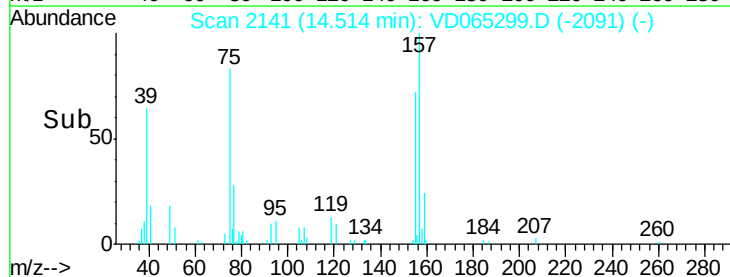
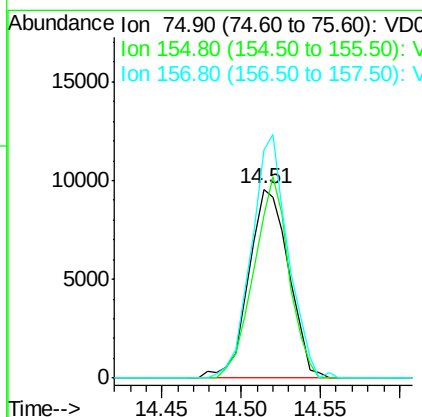
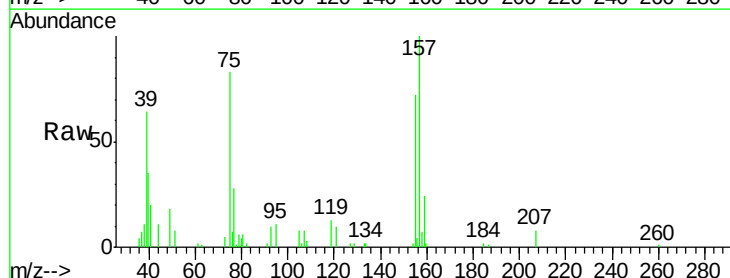
RT: 14.51 min Scan# 2141

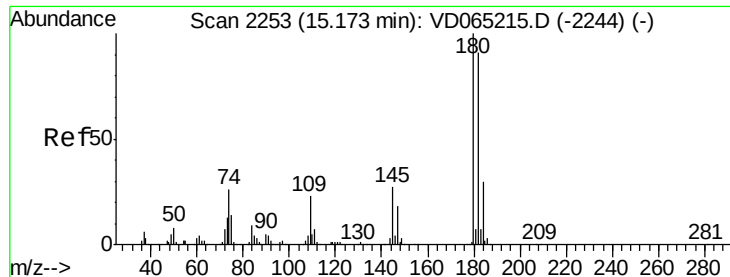
Delta R.T. -0.01 min

Lab File: VD065299.D

Acq: 24 Feb 2020 17:21

Tgt Ion:	75	Resp:	16775
Ion Ratio		Lower	Upper
75	100		
155	93.4	42.3	126.9
157	118.0	56.7	170.1





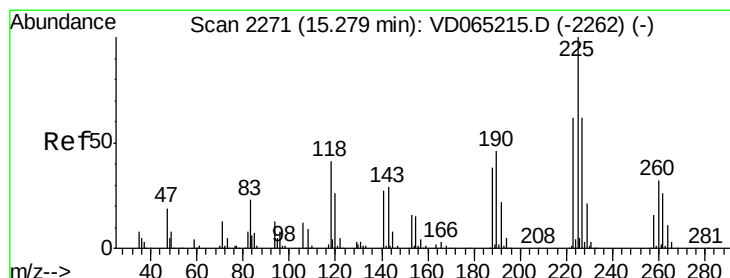
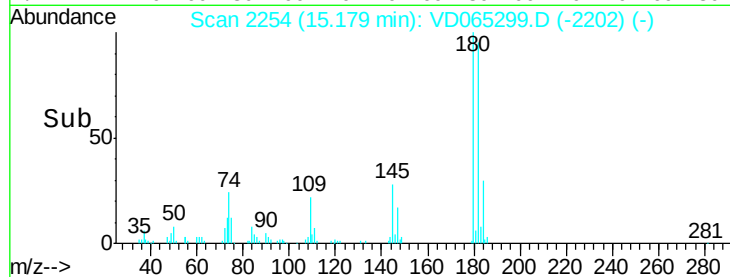
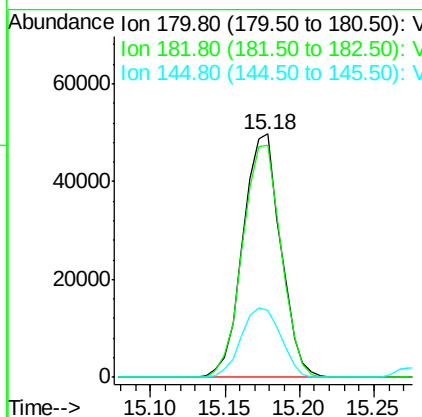
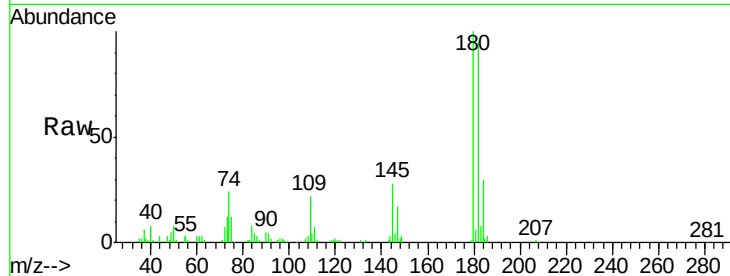
#93
 1,2,4-Trichlorobenzene
 Concen: 27.455 ug/l
 RT: 15.18 min Scan# 2254
 Delta R.T. 0.01 min
 Lab File: VD065299.D
 Acq: 24 Feb 2020 17:21

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-TS001-01MS

Tot Ion	Ratio	Resp	Lower	Upper
180	100	86916		
182	97.0	46.9	140.6	
145	30.0	13.9	41.7	

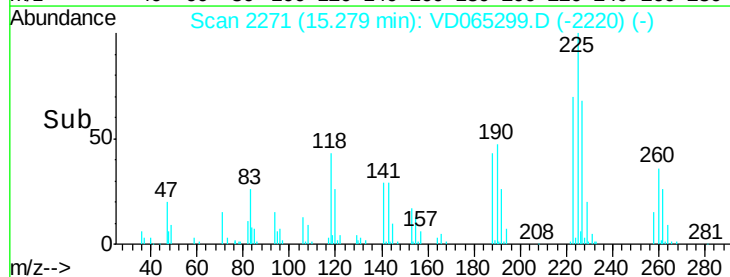
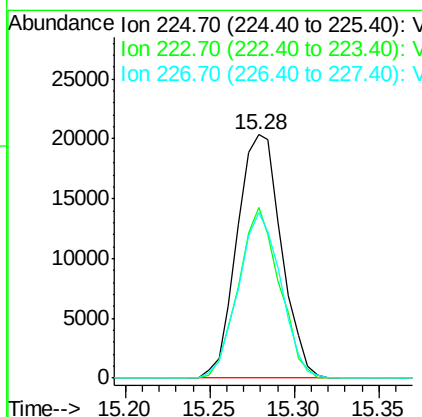
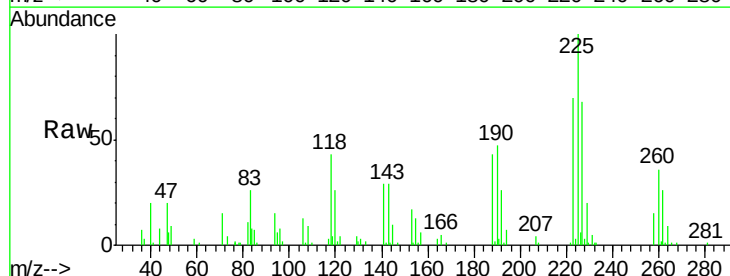
Manual Integrations
 APPROVED

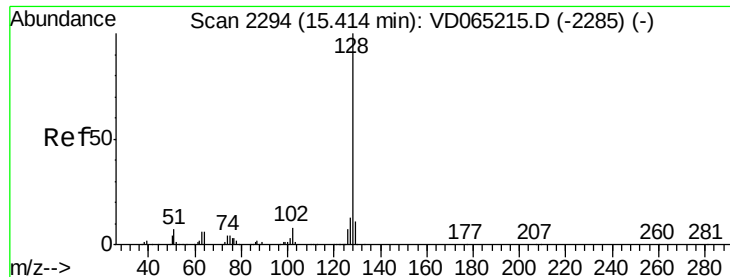
MMDadoda
 2/25/2020 5:15:48 PM



#94
 Hexachlorobutadiene
 Concen: 18.282 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. 0.00 min
 Lab File: VD065299.D
 Acq: 24 Feb 2020 17:21

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	37128		
223	64.6	31.4	94.2	
227	65.2	31.7	95.1	





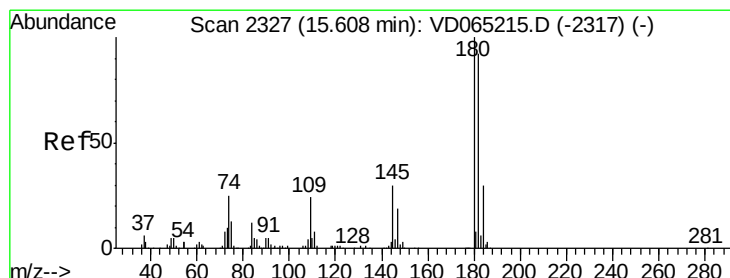
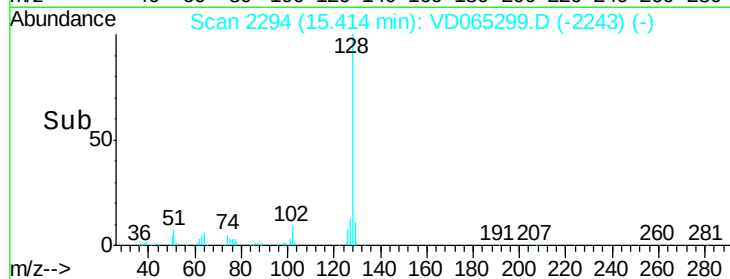
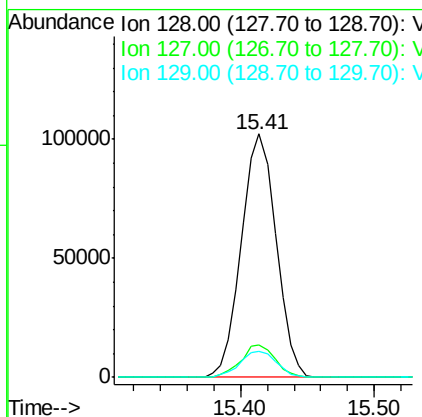
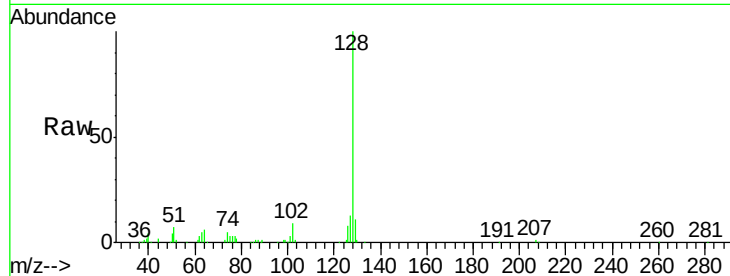
#95
Naphthalene
Concen: 35.893 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Instrument :
MSVOA_D
ClientSampleId :
LIED-TS001-01MS

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.3	15.5
129	11.1	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
2/25/2020 5:15:48 PM



#96
1,2,3-Trichlorobenzene
Concen: 26.101 ug/l
RT: 15.61 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VD065299.D
Acq: 24 Feb 2020 17:21

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.1	46.9	140.6
145	30.8	15.4	46.1

