

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122619\
 Data File : VD064623.D
 Acq On : 27 Dec 2019 03:58
 Operator : VA/SY
 Sample : K6439-03MSD
 Misc : 2.85G/5.00ml/MSVOA D/SOIL
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-BF001-01MSD

Manual Integrations
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 12/27/2019 2:07:29 PM

Quant Time: Dec 27 06:19:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	503807	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	809982	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	757053	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	369097	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.34	65	262369	59.06	ug/l	0.00
Spiked Amount 50.000			Recovery	=	118.12%	
35) Dibromofluoromethane	7.92	113	267520	53.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.66%	
50) Toluene-d8	10.34	98	997699	52.42	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.84%	
62) 4-Bromofluorobenzene	12.64	95	328279	54.55	ug/l	0.00
Spiked Amount 50.000			Recovery	=	109.10%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.99	85	38570	9.851	ug/l	99
3) Chloromethane	2.21	50	98087	17.913	ug/l	98
4) Vinyl Chloride	2.35	62	86494	12.955	ug/l	95
5) Bromomethane	2.77	94	80669	16.617	ug/l	90
6) Chloroethane	2.93	64	76514	17.103	ug/l	99
7) Trichlorofluoromethane	3.27	101	131461	11.694	ug/l	98
8) Diethyl Ether	3.71	74	54465	24.398	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	4.09	101	52881	11.358	ug/l	100
10) Methyl Iodide	4.30	142	87886	17.574	ug/l	100
11) Tert butyl alcohol	5.25	59	28543	112.108	ug/l #	87
12) 1,1-Dichloroethene	4.06	96	61639	13.906	ug/l	97
13) Acrolein	3.93	56	30622	86.301	ug/l	92
14) Allyl chloride	4.71	41	129545	18.746	ug/l	98
15) Acrylonitrile	5.43	53	111167	119.553	ug/l	100
16) Acetone	4.17	43	89791	91.769	ug/l	99
17) Carbon Disulfide	4.40	76	213448	14.893	ug/l	98
18) Methyl Acetate	4.73	43	113914	45.546	ug/l	99
19) Methyl tert-butyl Ether	5.49	73	240119	24.390	ug/l	98
20) Methylene Chloride	4.97	84	116908	23.102	ug/l	93
21) trans-1,2-Dichloroethene	5.47	96	90885	18.005	ug/l	91
22) Diisopropyl ether	6.37	45	329071	23.873	ug/l	100
23) Vinyl Acetate	6.31	43	668248m	85.463	ug/l	
24) 1,1-Dichloroethane	6.27	63	172660	20.865	ug/l	99
25) 2-Butanone	7.22	43	134738	110.338	ug/l	100
26) 2,2-Dichloropropane	7.21	77	108012	14.039	ug/l	98
27) cis-1,2-Dichloroethene	7.21	96	113641	20.860	ug/l	100
28) Bromochloromethane	7.55	49	76876	23.899	ug/l	97
29) Tetrahydrofuran	7.57	42	88387	116.391	ug/l	99
30) Chloroform	7.71	83	194349	22.386	ug/l	99
31) Cyclohexane	7.98	56	95452	11.523	ug/l #	90
32) 1,1,1-Trichloroethane	7.90	97	132408	16.237	ug/l	98
36) 1,1-Dichloropropene	8.11	75	103970	13.336	ug/l	97
37) Ethyl Acetate	7.30	43	53625	17.509	ug/l	98
38) Carbon Tetrachloride	8.10	117	105781	12.725	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	92604	9.807	ug/l	95
40) Benzene	8.35	78	383905	18.039	ug/l	99
41) Methacrylonitrile	7.54	41	42614	23.981	ug/l	95
42) 1,2-Dichloroethane	8.43	62	136238	22.152	ug/l	99
43) Isopropyl Acetate	8.46	43	116014	19.031	ug/l	98
44) Trichloroethene	9.11	130	103404	16.539	ug/l	90
45) 1,2-Dichloropropane	9.39	63	108350	21.323	ug/l	95
46) Dibromomethane	9.48	93	61569	21.732	ug/l	97
47) Bromodichloromethane	9.66	83	160444	21.283	ug/l	99
48) Methyl methacrylate	9.46	41	68390	23.826	ug/l	94
49) 1,4-Dioxane	9.47	88	14098	431.563	ug/l	96
51) 4-Methyl-2-Pentanone	10.23	43	316131	104.918	ug/l	100
52) Toluene	10.40	92	247905	17.755	ug/l	100
53) t-1,3-Dichloropropene	10.63	75	151280	21.524	ug/l	96
54) cis-1,3-Dichloropropene	10.09	75	174013	20.997	ug/l	98
55) 1,1,2-Trichloroethane	10.80	97	86022	22.530	ug/l	95
56) Ethyl methacrylate	10.66	69	92833	19.469	ug/l	98
57) 1,3-Dichloropropane	10.95	76	142207	21.632	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.94	63	163872	90.205	ug/l	99
59) 2-Hexanone	10.98	43	207637	101.530	ug/l	98
60) Dibromochloromethane	11.14	129	115410	21.859	ug/l	97
61) 1,2-Dibromoethane	11.25	107	82472	21.900	ug/l	96
64) Tetrachloroethene	10.87	164	76425	13.159	ug/l	97
65) Chlorobenzene	11.67	112	292857	18.638	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.74	131	118015	19.924	ug/l	99
67) Ethyl Benzene	11.75	91	456402	16.003	ug/l	97
68) m/p-Xylenes	11.86	106	352009	31.978	ug/l	96
69) o-Xylene	12.18	106	173800	17.480	ug/l	99
70) Styrene	12.20	104	318118	18.228	ug/l	99
71) Bromoform	12.37	173	70572	20.892	ug/l #	98
73) Isopropylbenzene	12.48	105	403321	15.291	ug/l	99
74) N-amyl acetate	12.29	43	83112	14.741	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.74	83	88002	21.239	ug/l	98
76) 1,2,3-Trichloropropane	12.79	75	61987m	21.268	ug/l	
77) Bromobenzene	12.77	156	130786	20.180	ug/l	98
78) n-propylbenzene	12.83	91	464518	15.096	ug/l	100
79) 2-Chlorotoluene	12.91	91	295560	17.485	ug/l	99
80) 1,3,5-Trimethylbenzene	12.97	105	364727	16.833	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.53	75	27102	19.448	ug/l	96
82) 4-Chlorotoluene	13.01	91	319864	17.781	ug/l	99
83) tert-Butylbenzene	13.23	119	275013	14.619	ug/l	97
84) 1,2,4-Trimethylbenzene	13.27	105	379767	17.599	ug/l	99
85) sec-Butylbenzene	13.41	105	357817	13.874	ug/l	98
86) p-Isopropyltoluene	13.52	119	358762	14.548	ug/l	99
87) 1,3-Dichlorobenzene	13.52	146	229545	18.579	ug/l	98
88) 1,4-Dichlorobenzene	13.60	146	232023	19.116	ug/l	98
89) n-Butylbenzene	13.85	91	296406	13.347	ug/l	98
90) Hexachloroethane	14.12	117	72869	15.469	ug/l	99
91) 1,2-Dichlorobenzene	13.90	146	206739	19.624	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.52	75	13774	20.506	ug/l	97

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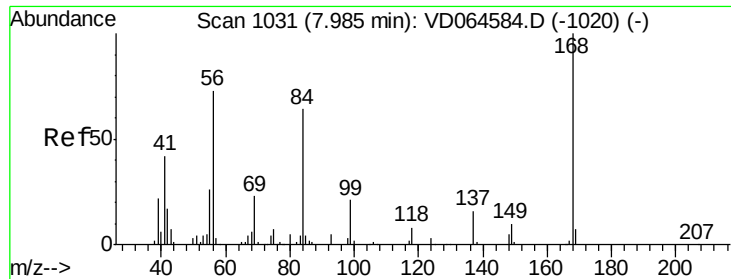
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	140580	18.122	ug/l	99
94) Hexachlorobutadiene	15.28	225	57872	11.856	ug/l	98
95) Naphthalene	15.41	128	244623	19.933	ug/l	98
96) 1,2,3-Trichlorobenzene	15.60	180	126611	19.119	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Instrument :

MSVOA_D

ClientSampleID :

LIED-BF001-01MSD

Tot Ion:168 Resp: 503807

Ion Ratio Lower Upper

168 100

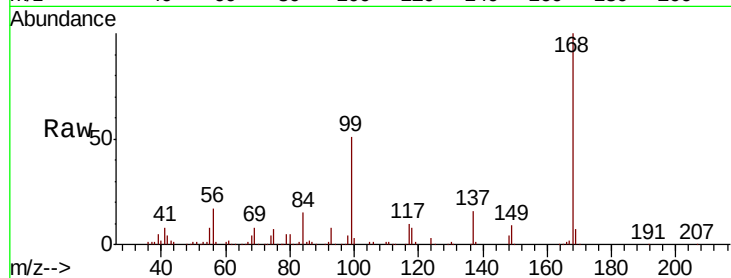
99 50.4 41.8 62.6

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

250000

200000

150000

100000

50000

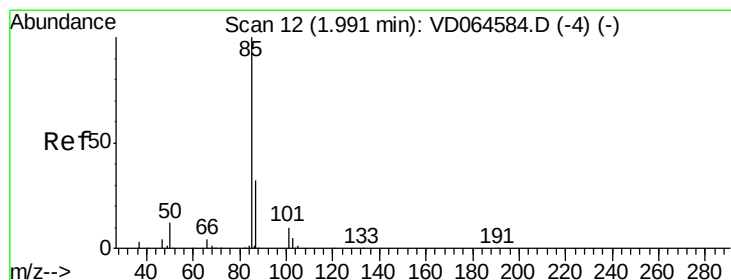
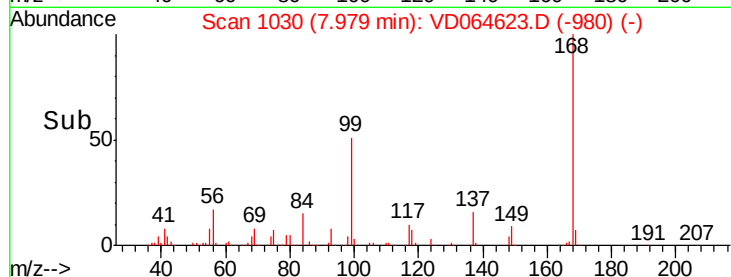
0

7.90

8.00

8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 9.851 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD064623.D

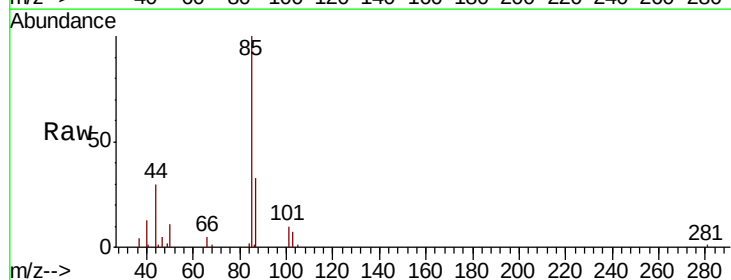
Acq: 27 Dec 2019 03:58

Tgt Ion: 85 Resp: 38570

Ion Ratio Lower Upper

85 100

87 32.5 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

30000

25000

20000

15000

10000

5000

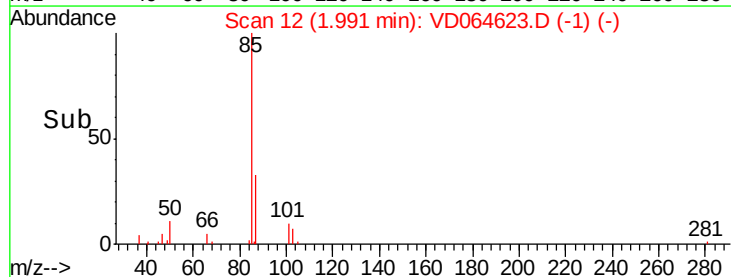
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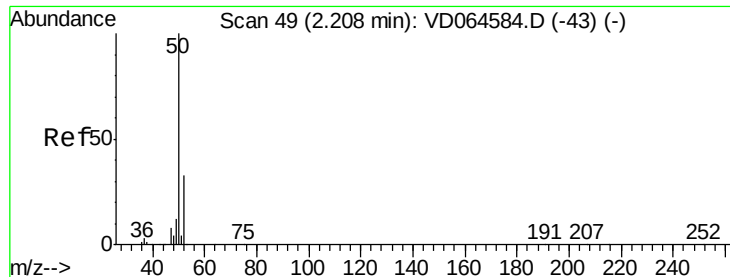
1.95

2.00

2.05

Time-->





#3

Chloromethane

Concen: 17.913 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Instrument :

MSVOA_D

ClientSampleId :

LIED-BF001-01MSD

Tot Ion: 50 Resp: 98087

Ion Ratio Lower Upper

50 100

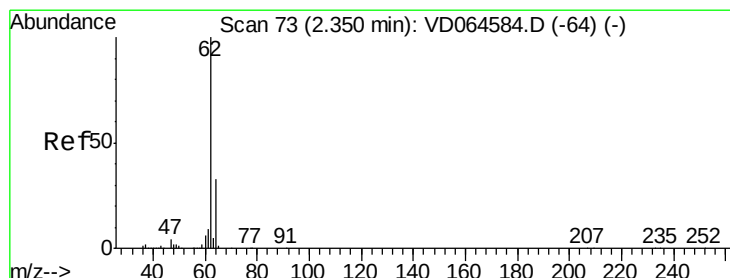
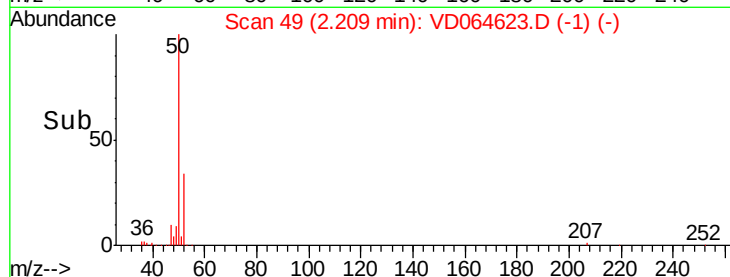
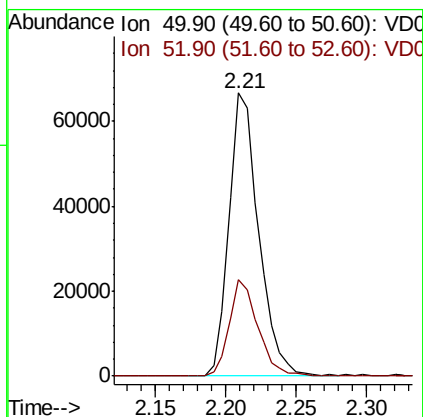
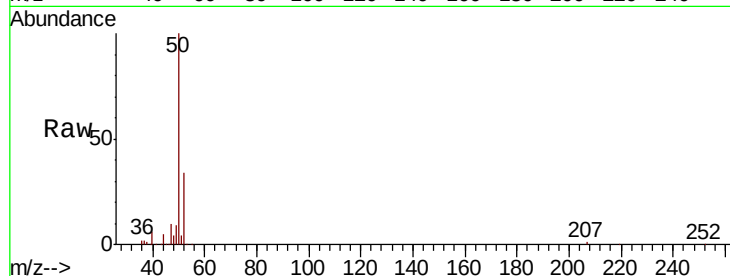
52 34.0 26.5 39.7

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#4

Vinyl Chloride

Concen: 12.955 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD064623.D

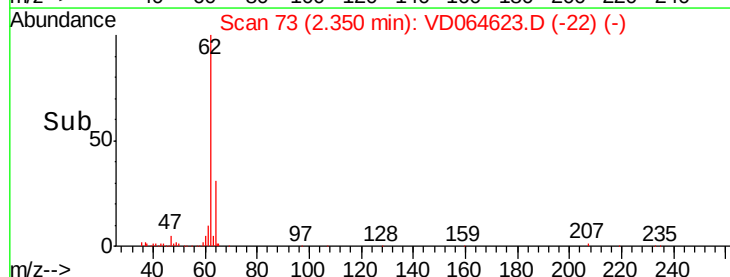
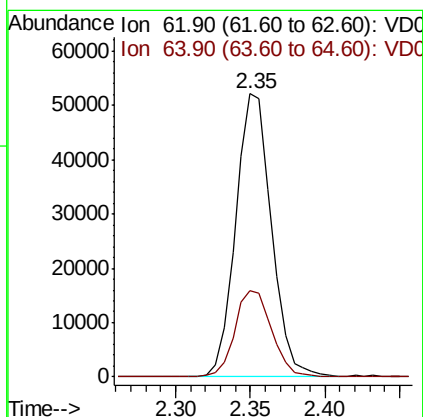
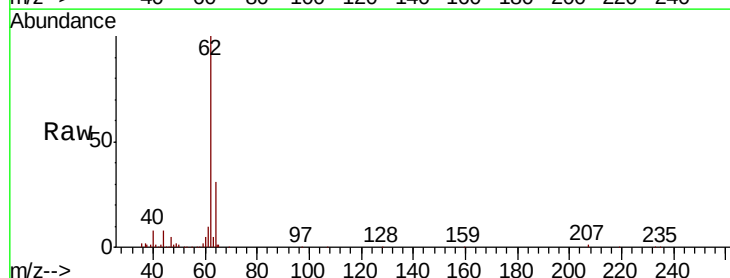
Acq: 27 Dec 2019 03:58

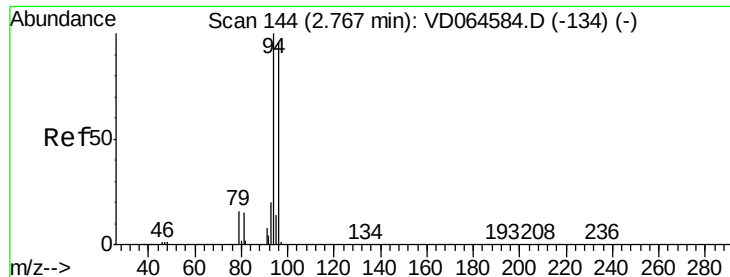
Tgt Ion: 62 Resp: 86494

Ion Ratio Lower Upper

62 100

64 30.3 26.6 40.0





#5

Bromomethane

Concen: 16.617 ug/l

RT: 2.77 min Scan# 145

Delta R.T. 0.01 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Instrument :

MSVOA_D

ClientSampleId :

LIED-BF001-01MSD

Tot Ion: 94 Resp: 80669

Ion Ratio Lower Upper

94 100

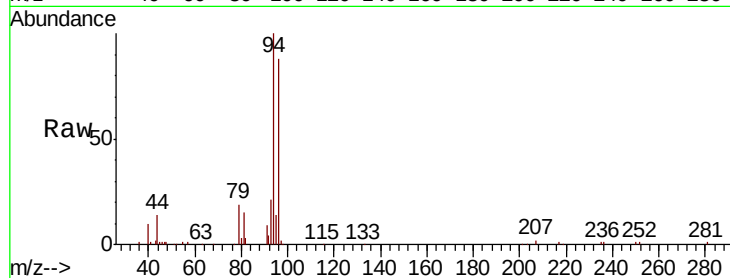
96 86.6 77.2 115.8

Manual Integrations

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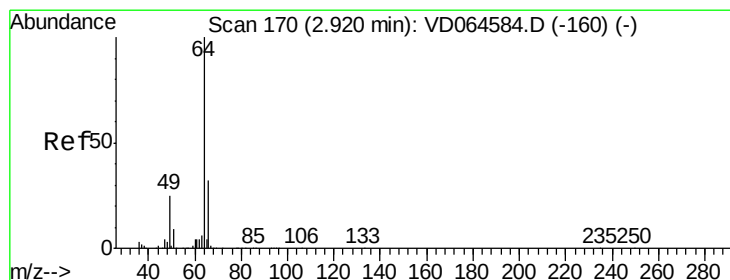
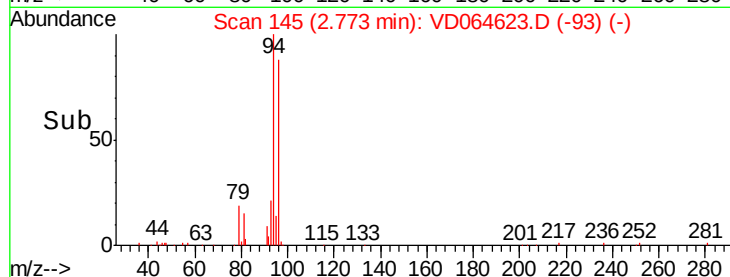
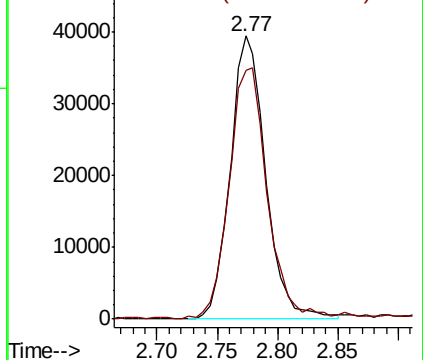
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Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 17.103 ug/l

RT: 2.93 min Scan# 171

Delta R.T. 0.01 min

Lab File: VD064623.D

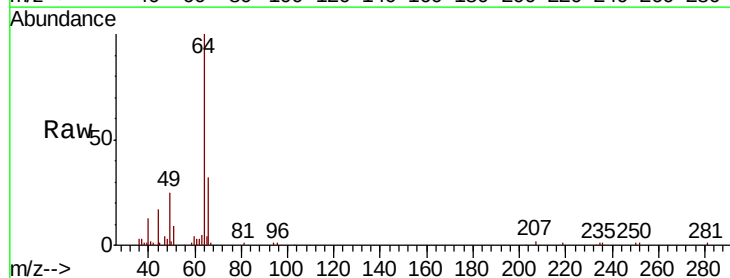
Acq: 27 Dec 2019 03:58

Tgt Ion: 64 Resp: 76514

Ion Ratio Lower Upper

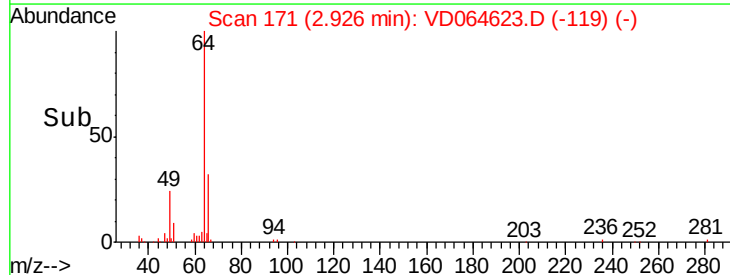
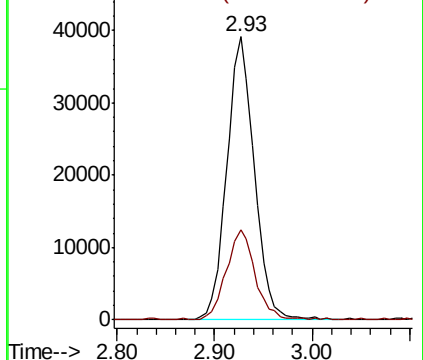
64 100

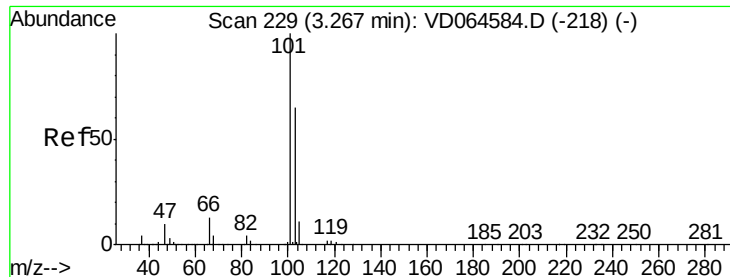
66 31.7 25.9 38.9



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

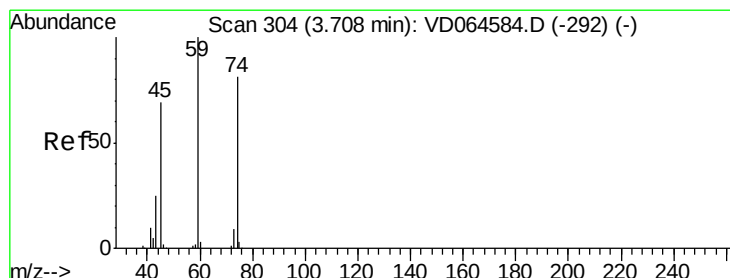
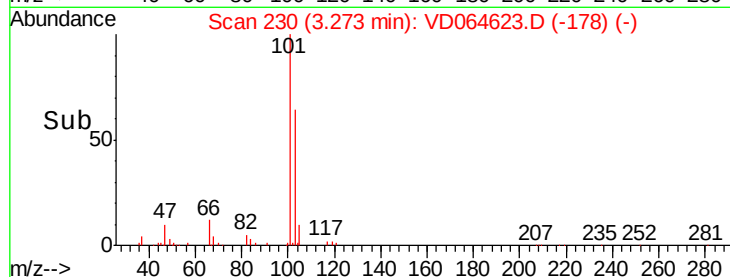
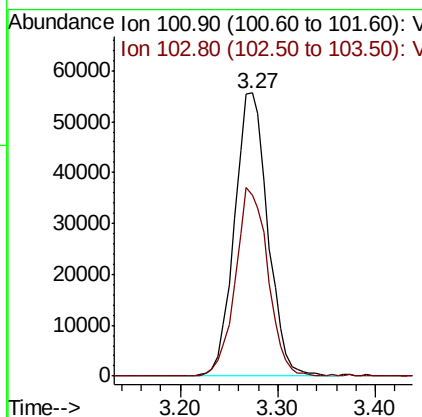
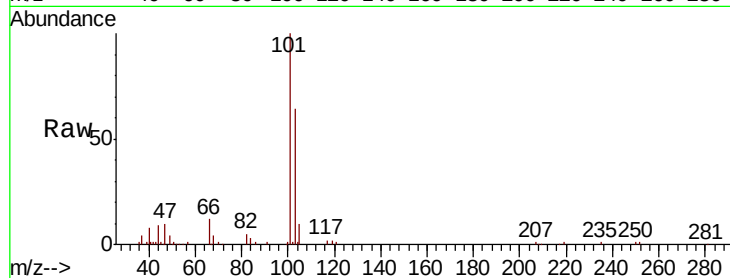
Trichlorofluoromethane
Concen: 11.694 ug/l
RT: 3.27 min Scan# 230
Delta R.T. 0.01 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

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Tot Ion	Ratio	Lower	Upper
101	100		
103	63.8	52.2	78.4

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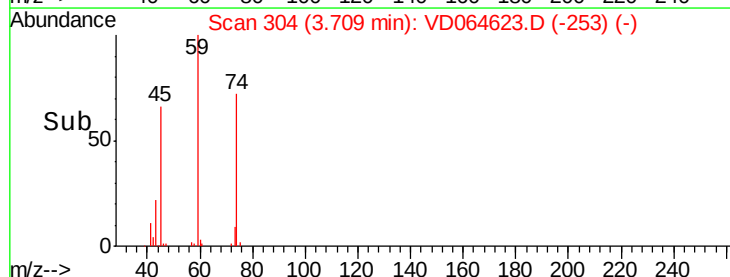
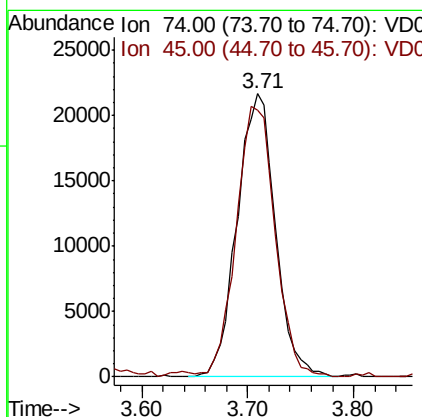
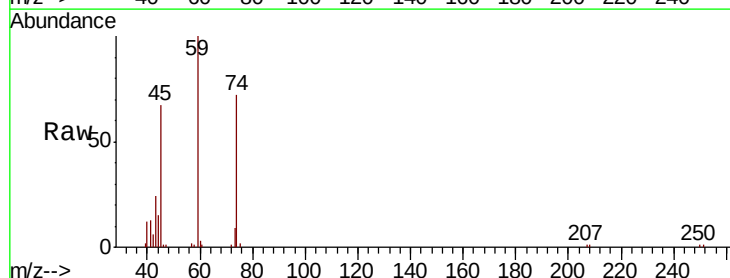
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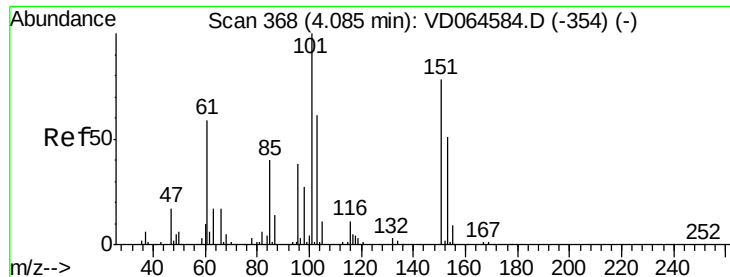


#8

Diethyl Ether
Concen: 24.398 ug/l
RT: 3.71 min Scan# 304
Delta R.T. 0.00 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Tgt Ion	Ratio	Lower	Upper
74	100		
45	97.4	47.5	142.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 11.358 ug/l

RT: 4.09 min Scan# 368

Delta R.T. 0.00 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Instrument :

MSVOA_D

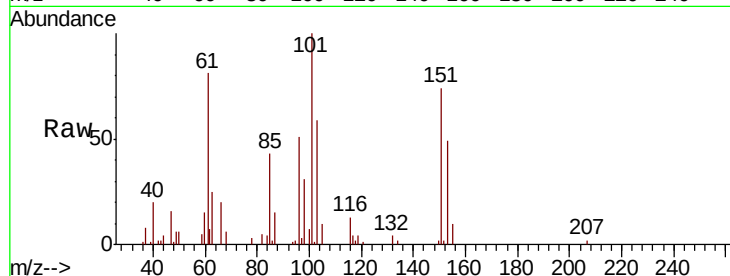
ClientSampleId :

LIED-BF001-01MSD

Tot Ion:	101	Resp:	52881
Ion Ratio	Lower	Upper	
101	100		
85	43.8	35.2	52.8
151	82.7	66.2	99.4

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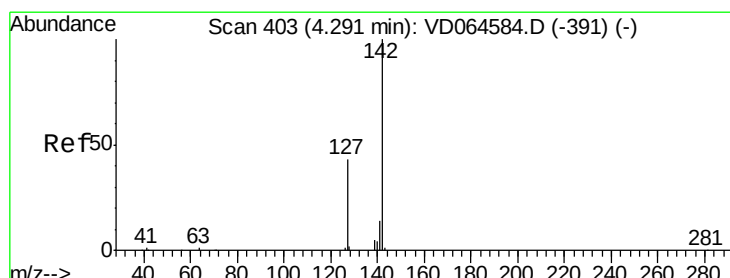
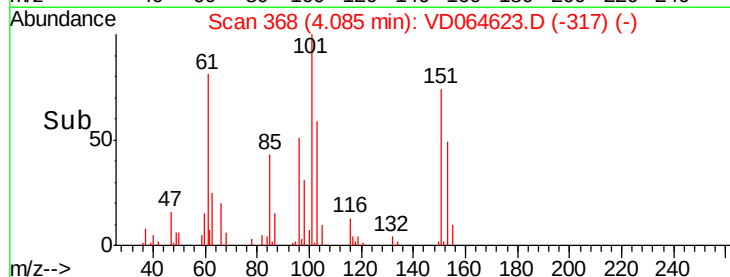
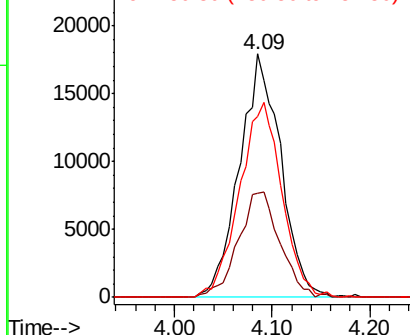


Abundance

Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 17.574 ug/l

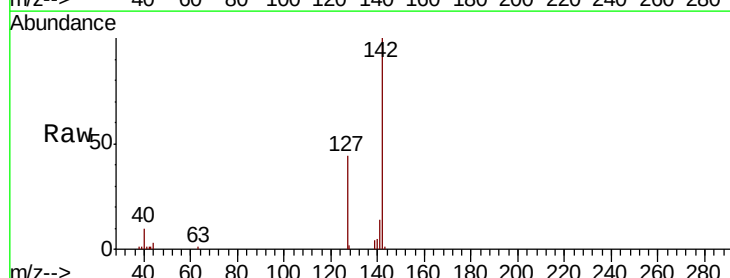
RT: 4.30 min Scan# 404

Delta R.T. 0.01 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Tgt Ion:	142	Resp:	87886
Ion Ratio	Lower	Upper	
142	100		
127	45.3	36.2	54.4
141	15.4	11.8	17.8

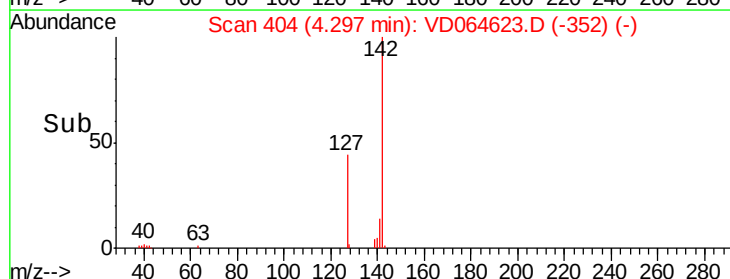
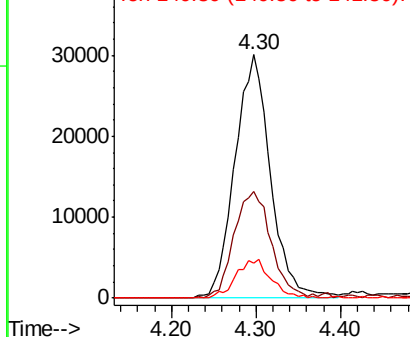


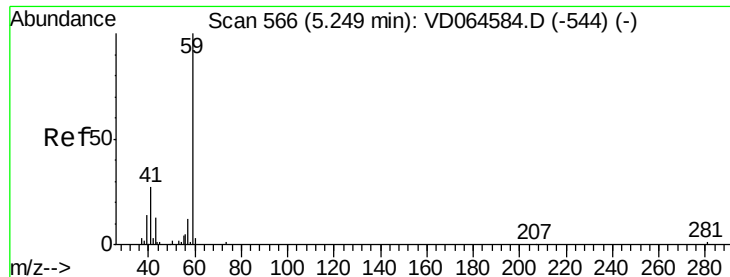
Abundance

Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

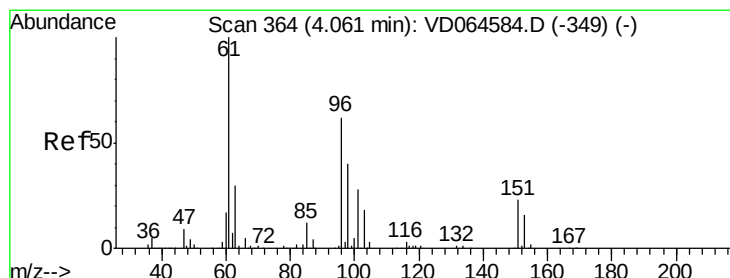
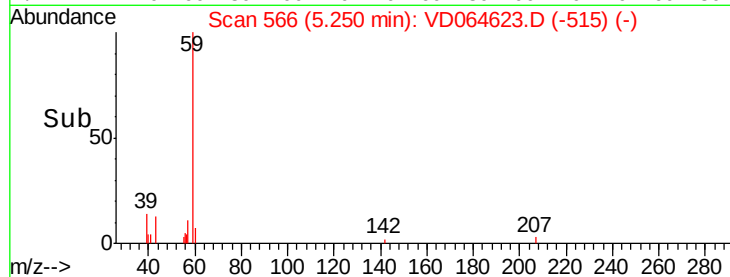
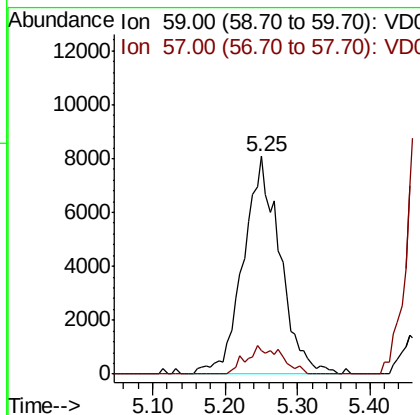
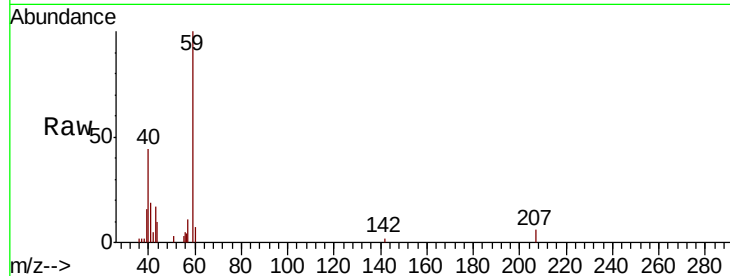
Tert butyl alcohol
Concen: 112.108 ug/l
RT: 5.25 min Scan# 566
Delta R.T. 0.00 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Instrument :
MSVOA_D
ClientSampleId :
LIED-BF001-01MSD

Tot Ion	59	Resp	28543
Ion Ratio	100	Lower	Upper
57	6.7	9.3	13.9#

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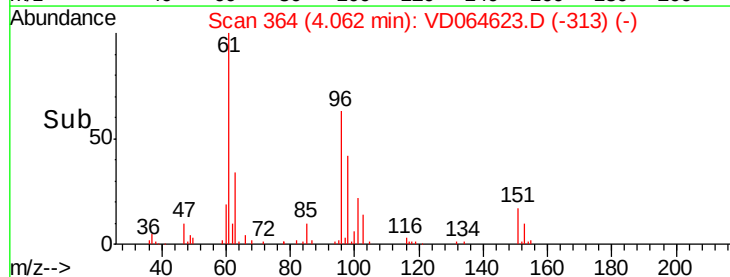
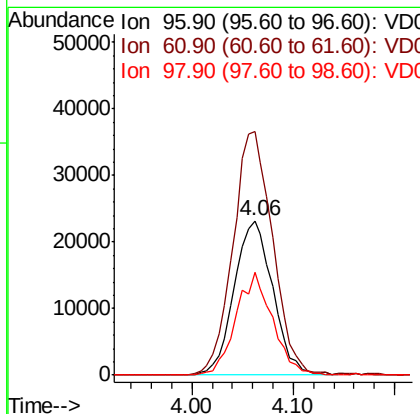
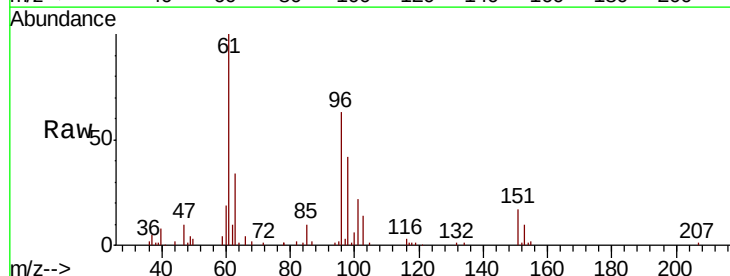
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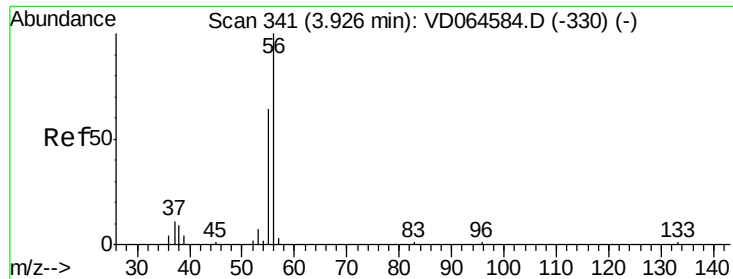


#12

1,1-Dichloroethene
Concen: 13.906 ug/l
RT: 4.06 min Scan# 364
Delta R.T. 0.00 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Tgt Ion	96	Resp	61639
Ion Ratio	100	Lower	Upper
61	158.0	129.4	194.0
98	67.0	51.4	77.0





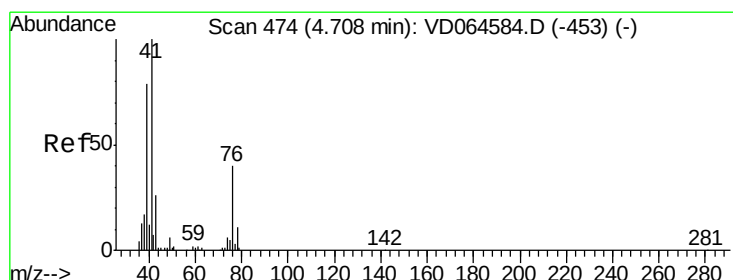
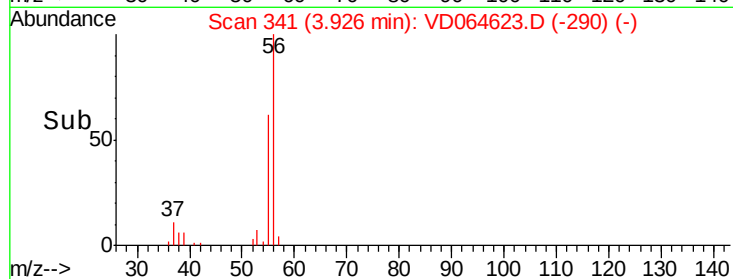
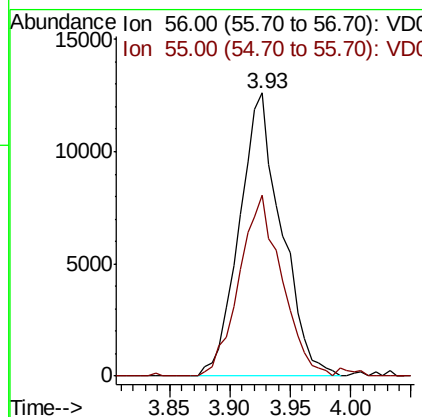
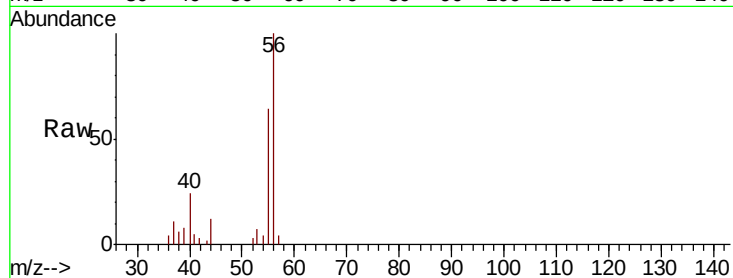
#13
Acrolein
Concen: 86.301 ug/l
RT: 3.93 min Scan# 341
Delta R.T. 0.00 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Instrument :
MSVOA_D
ClientSampleId :
LIED-BF001-01MSD

Tot Ion: 56 Resp: 30622
Ion Ratio Lower Upper
56 100
55 64.4 56.7 85.1

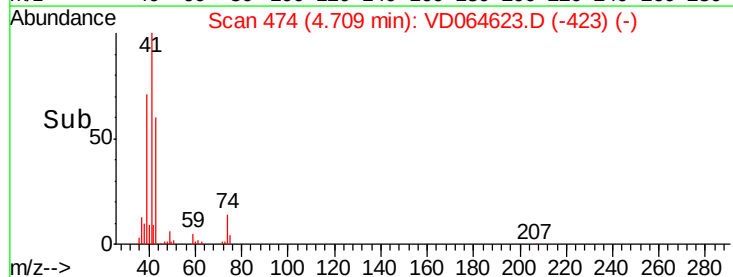
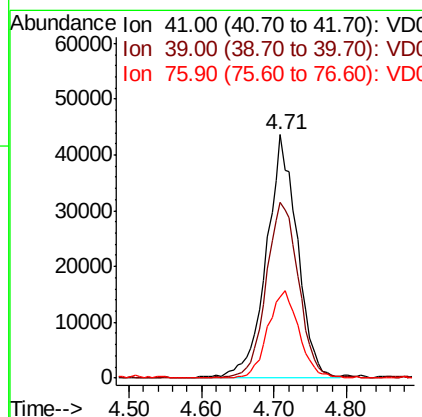
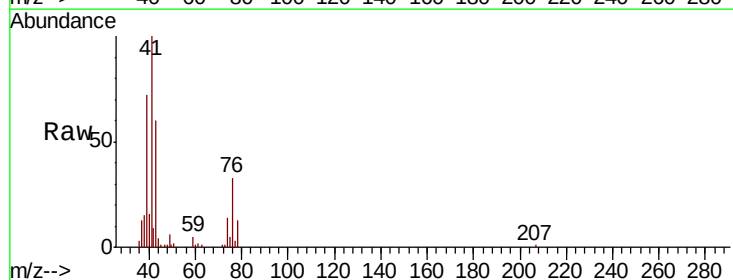
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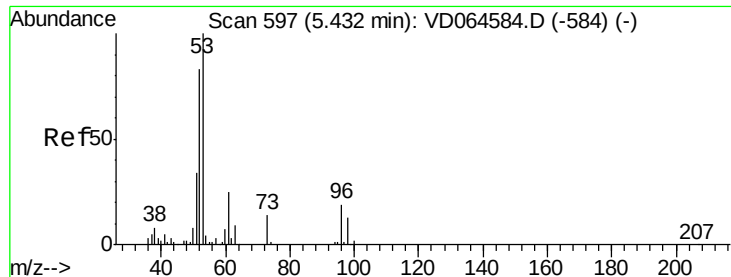
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#14
Allyl chloride
Concen: 18.746 ug/l
RT: 4.71 min Scan# 474
Delta R.T. 0.00 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Tgt Ion: 41 Resp: 129545
Ion Ratio Lower Upper
41 100
39 75.7 62.3 93.5
76 36.1 29.7 44.5





#15

Acrylonitrile

Concen: 119.553 ug/l

RT: 5.43 min Scan# 596

Delta R.T. -0.01 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Instrument :

MSVOA_D

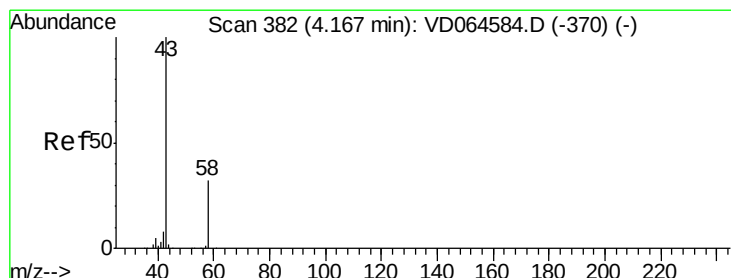
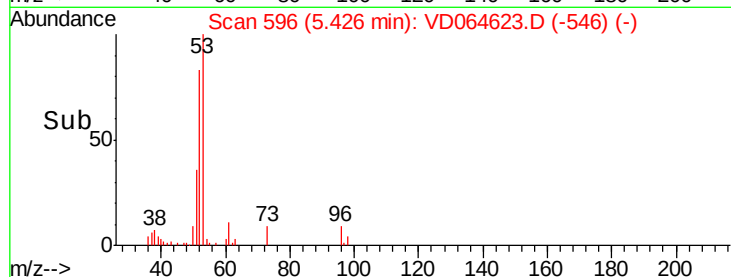
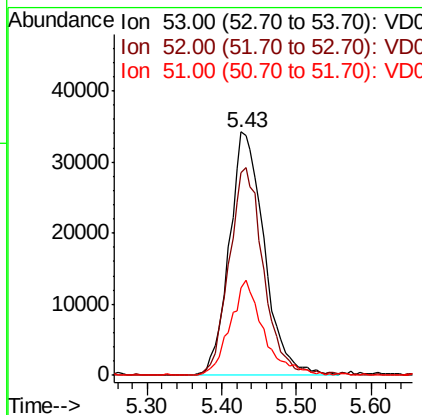
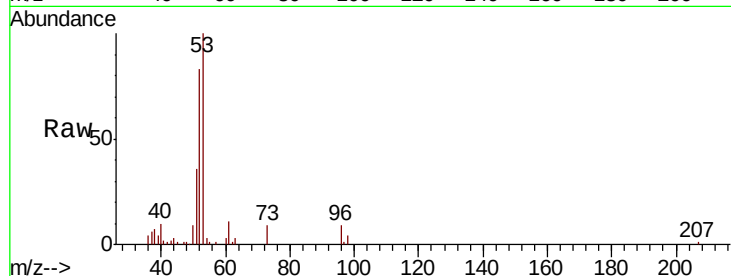
ClientSampleId :

LIED-BF001-01MSD

Tot Ion:	53	Resp:	111167
Ion Ratio	Lower	Upper	
53	100		
52	82.4	66.2	99.2
51	37.3	30.1	45.1

Manual Integrations
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#16

Acetone

Concen: 91.769 ug/l

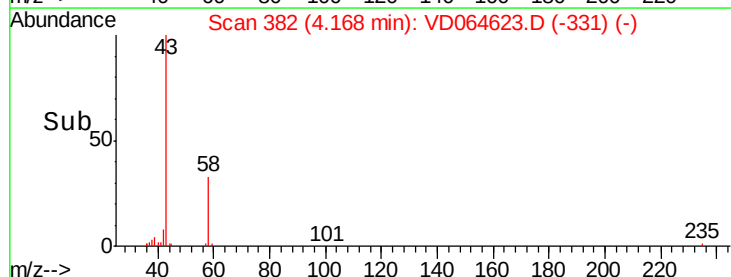
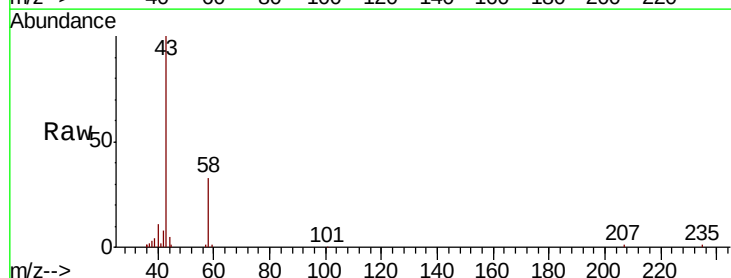
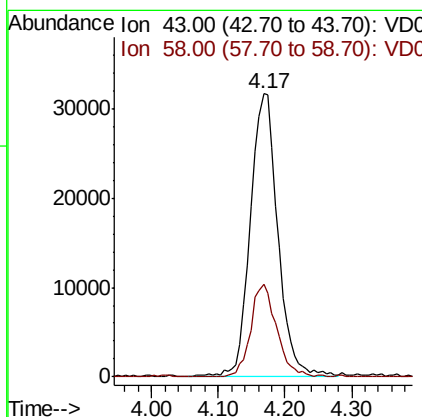
RT: 4.17 min Scan# 382

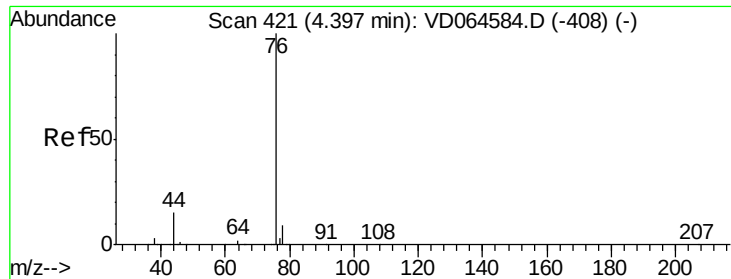
Delta R.T. 0.00 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Tgt Ion:	43	Resp:	89791
Ion Ratio	Lower	Upper	
43	100		
58	32.7	25.8	38.6





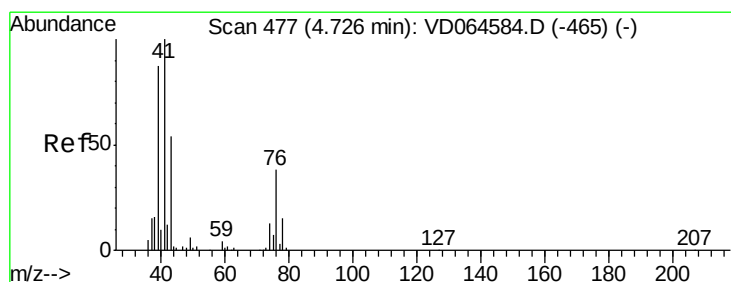
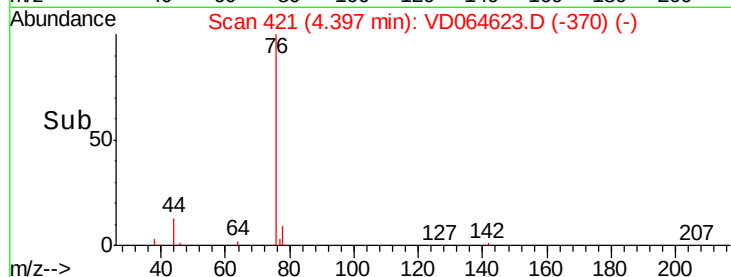
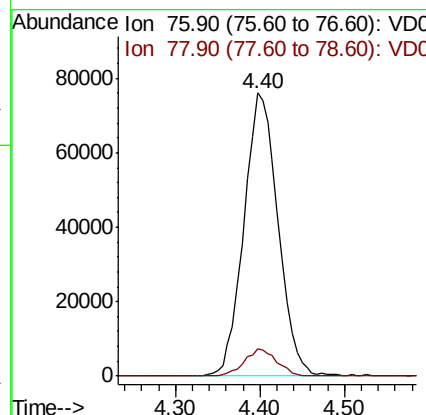
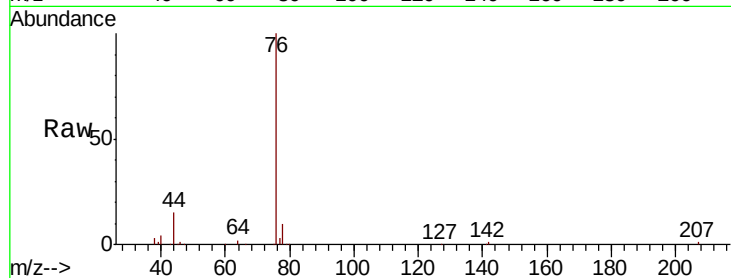
#17
Carbon Disulfide
Concen: 14.893 ug/l
RT: 4.40 min Scan# 421
Delta R.T. 0.00 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Instrument :
MSVOA_D
ClientSampleId :
LIED-BF001-01MSD

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.8	7.3	10.9

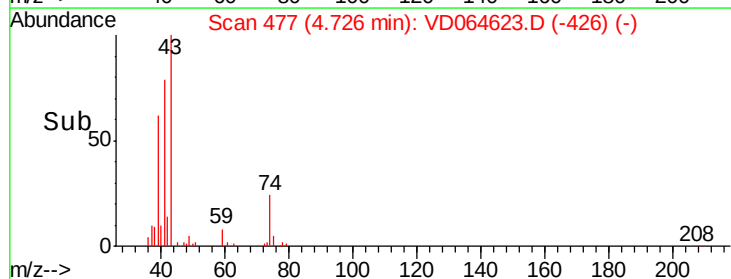
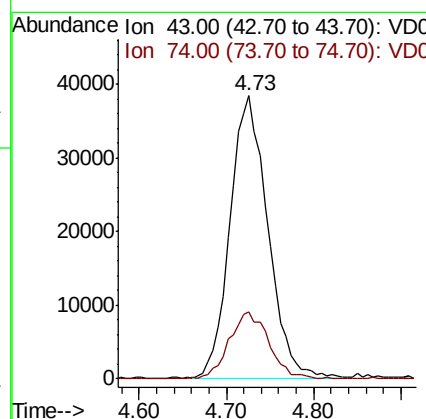
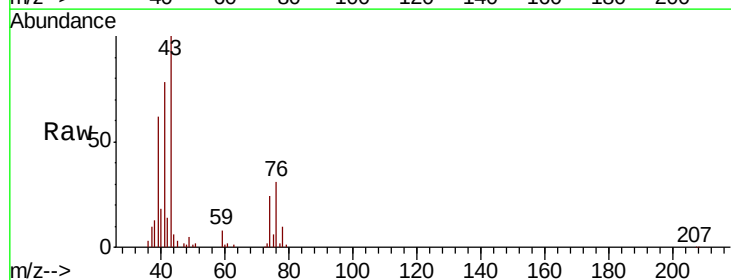
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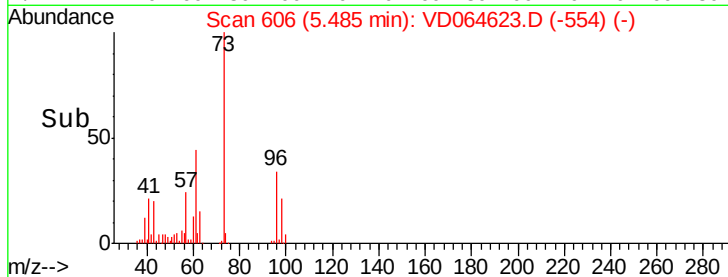
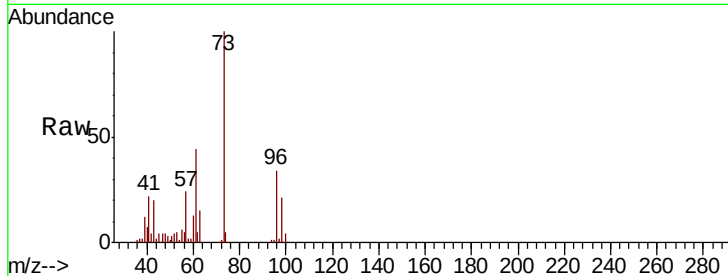
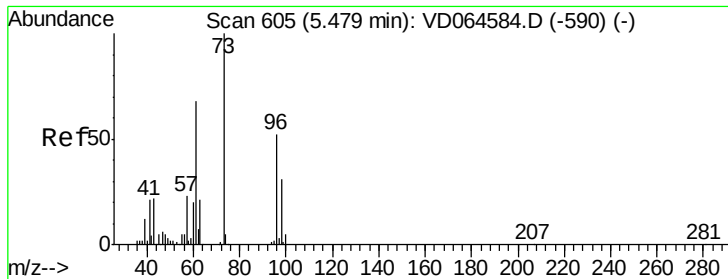
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#18
Methyl Acetate
Concen: 45.546 ug/l
RT: 4.73 min Scan# 477
Delta R.T. 0.00 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.5	19.2	28.8





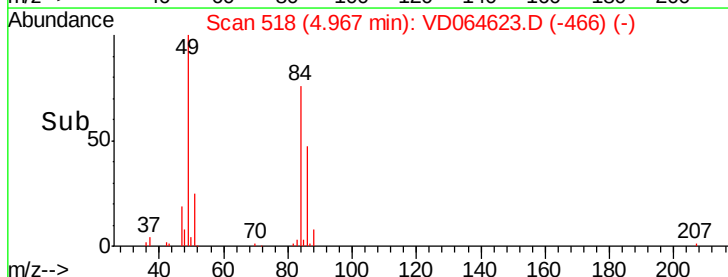
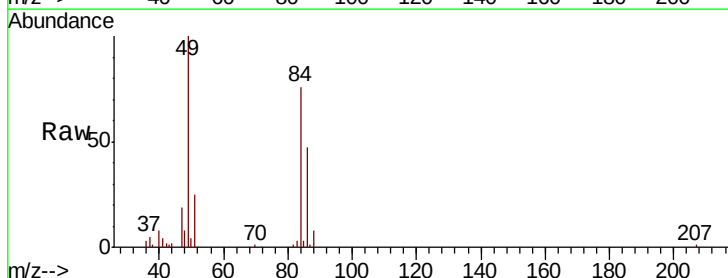
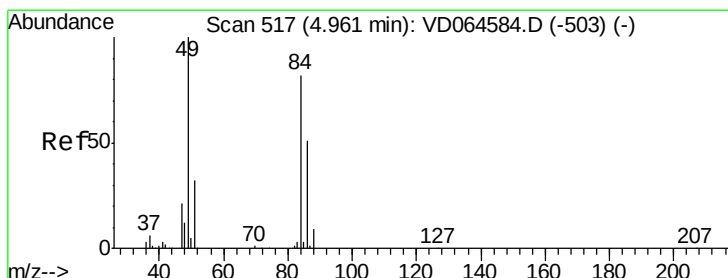
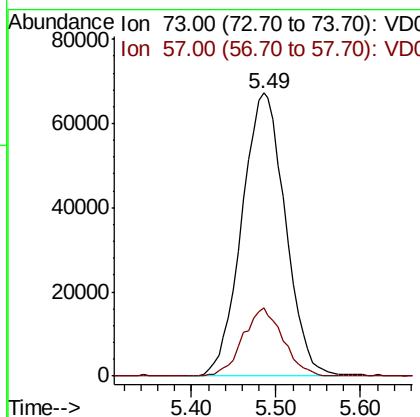
#19
Methyl tert-butyl Ether
Concen: 24.390 ug/l
RT: 5.49 min Scan# 606
Delta R.T. 0.01 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Tot Ion: 73 Resp: 240119
Ion Ratio Lower Upper
73 100
57 24.0 18.6 27.8

Instrument :
MSVOA_D
ClientSampleId :
LIED-BF001-01MSD

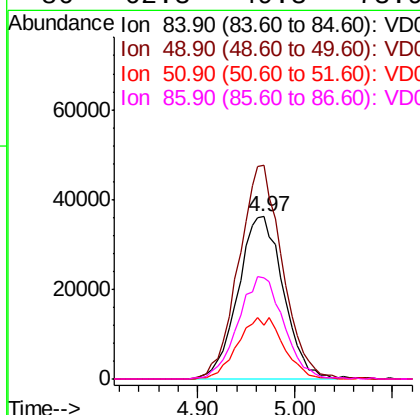
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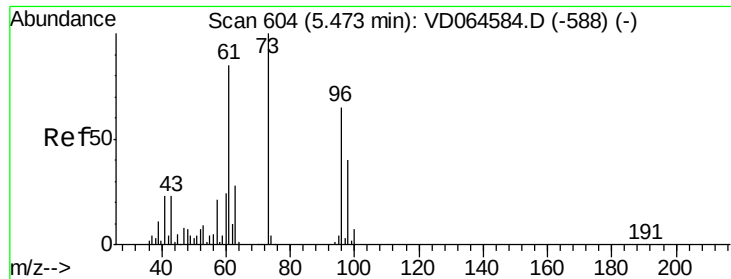
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#20
Methylene Chloride
Concen: 23.102 ug/l
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Tgt Ion: 84 Resp: 116908
Ion Ratio Lower Upper
84 100
49 131.5 97.2 145.8
51 33.4 31.4 47.0
86 62.3 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 18.005 ug/l

RT: 5.47 min Scan# 604

Delta R.T. 0.00 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Instrument :

MSVOA_D

ClientSampleId :

LIED-BF001-01MSD

Tot Ion: 96 Resp: 90885

Ion Ratio Lower Upper

96 100

61 119.5 104.7 157.1

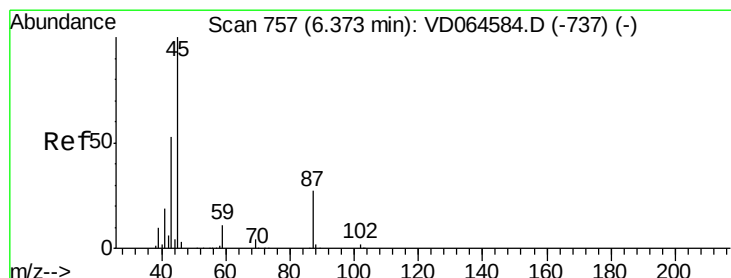
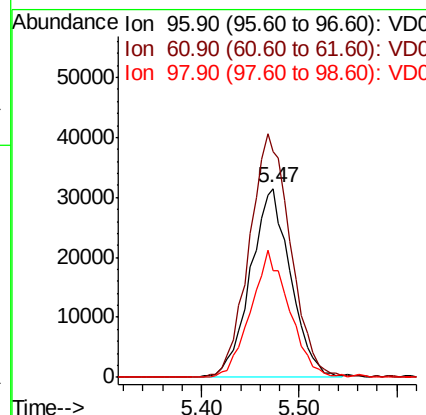
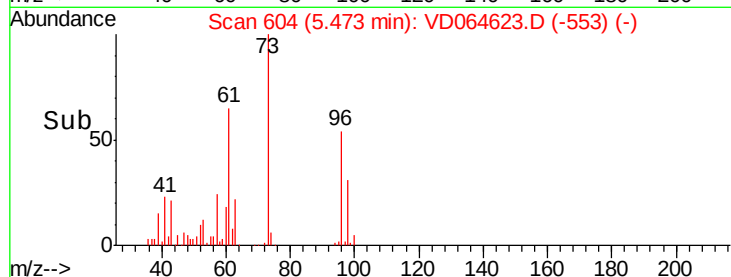
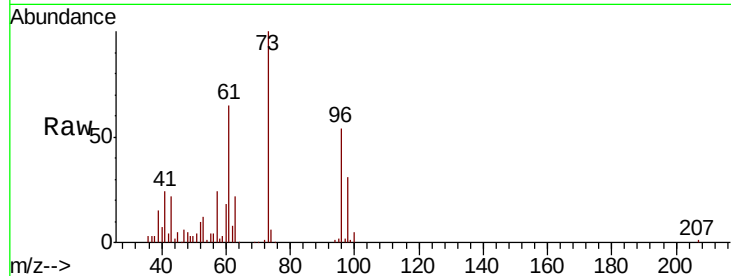
98 56.7 49.4 74.2

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#22

Diisopropyl ether

Concen: 23.873 ug/l

RT: 6.37 min Scan# 757

Delta R.T. 0.00 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Tgt Ion: 45 Resp: 329071

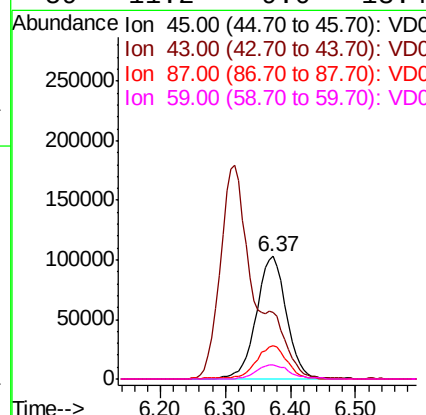
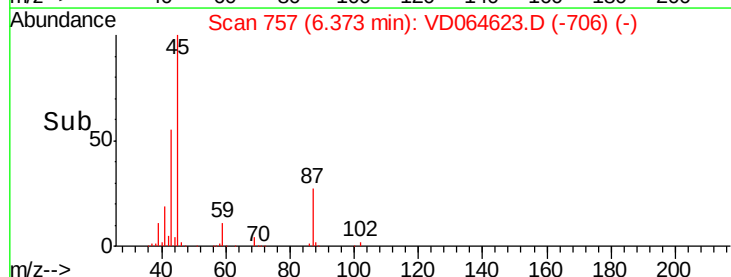
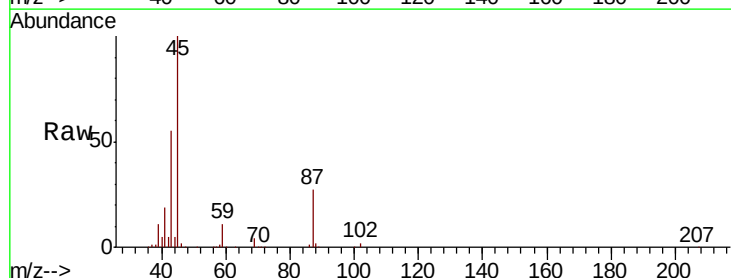
Ion Ratio Lower Upper

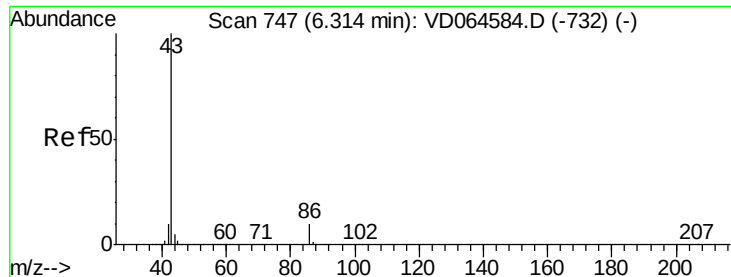
45 100

43 54.1 43.2 64.8

87 26.8 21.9 32.9

59 11.2 9.0 13.4





#23

Vinyl Acetate

Concen: 85.463 ug/l m

RT: 6.31 min Scan# 747

Delta R.T. 0.00 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Instrument :

MSVOA_D

ClientSampleId :

LIED-BF001-01MSD

Tot Ion: 43 Resp: 668248

Ion Ratio Lower Upper

43 100

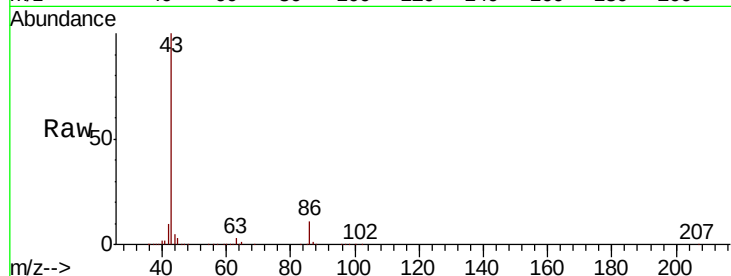
86 11.0 8.3 12.5

Manual Integrations

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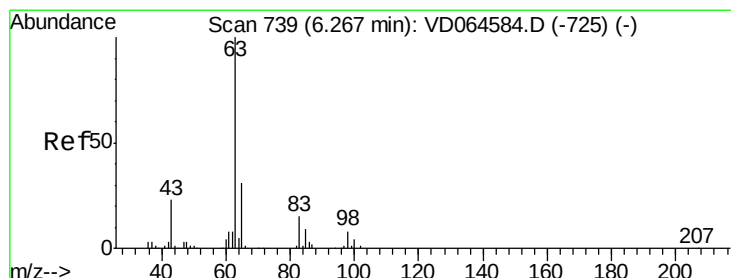
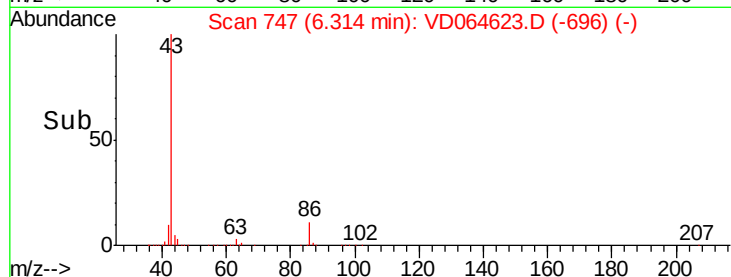
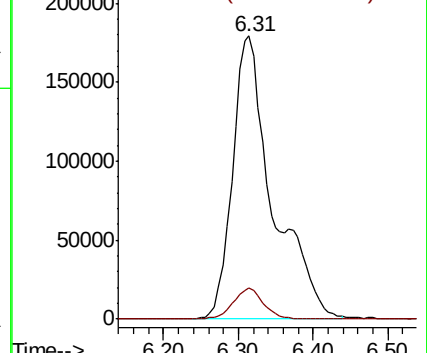
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Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 20.865 ug/l

RT: 6.27 min Scan# 739

Delta R.T. 0.00 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

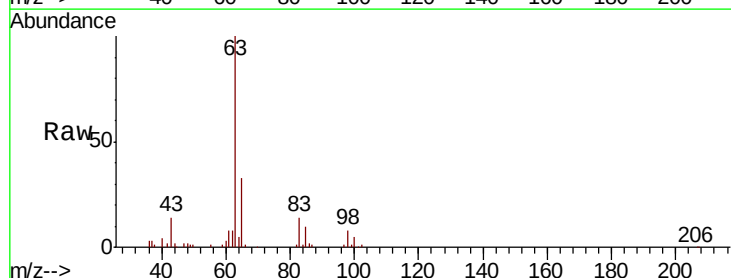
Tgt Ion: 63 Resp: 172660

Ion Ratio Lower Upper

63 100

98 8.5 4.1 12.3

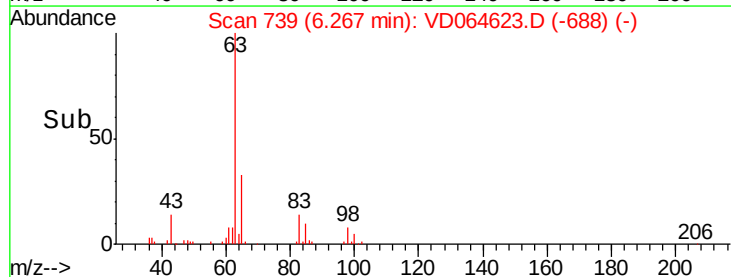
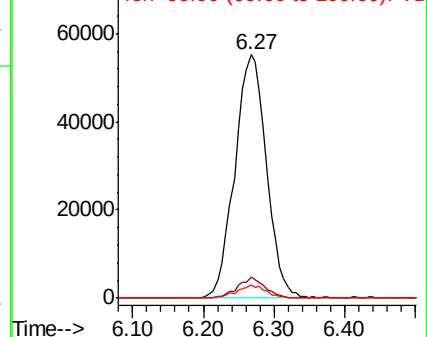
100 5.2 2.2 6.6

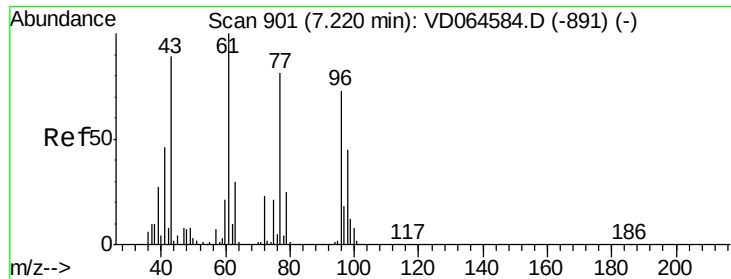


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 110.338 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.00 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Instrument :

MSVOA_D

ClientSampleId :

LIED-BF001-01MSD

Tot Ion: 43 Resp: 134738

Ion Ratio Lower Upper

43 100

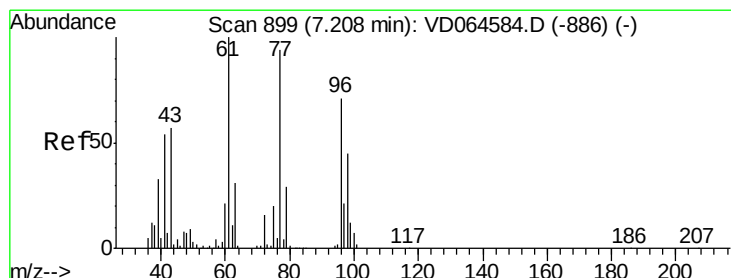
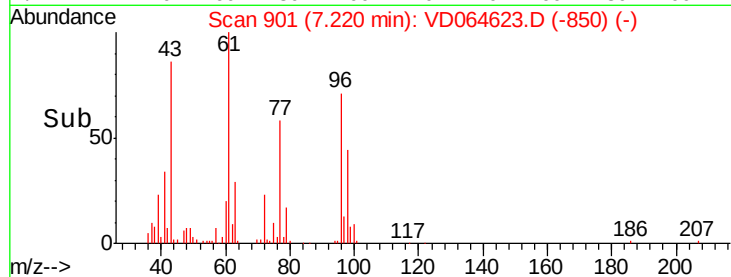
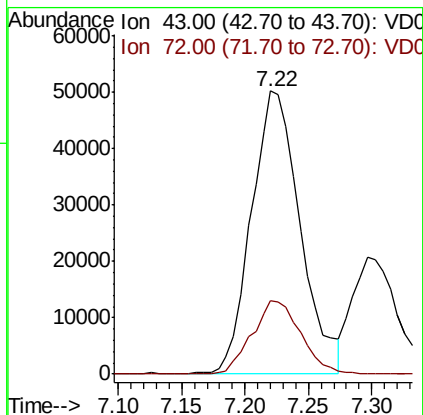
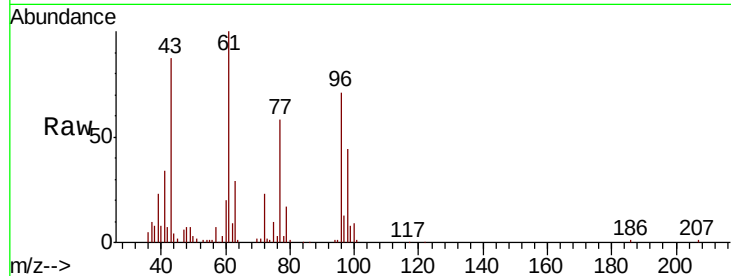
72 26.0 20.7 31.1

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 14.039 ug/l

RT: 7.21 min Scan# 899

Delta R.T. 0.00 min

Lab File: VD064623.D

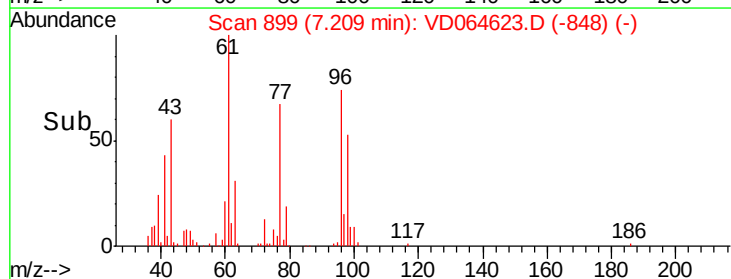
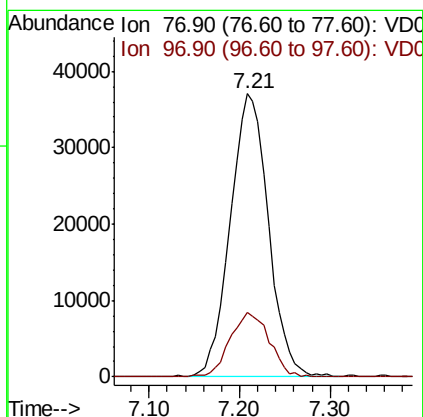
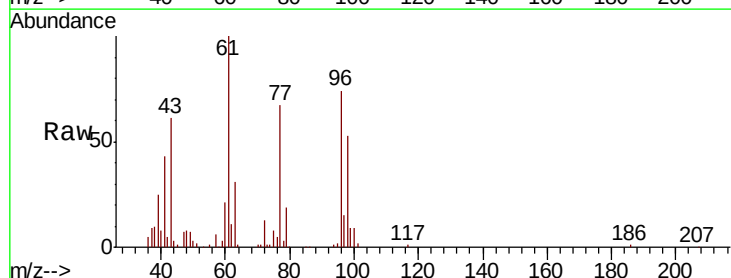
Acq: 27 Dec 2019 03:58

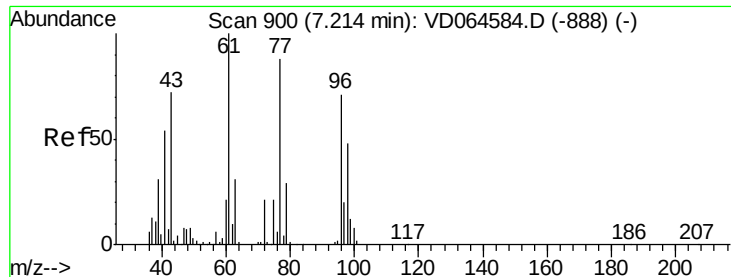
Tgt Ion: 77 Resp: 108012

Ion Ratio Lower Upper

77 100

97 23.3 11.2 33.6





#27

cis-1,2-Dichloroethene

Concen: 20.860 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.00 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Instrument :

MSVOA_D

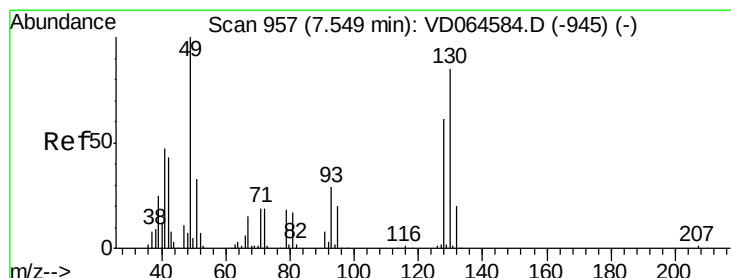
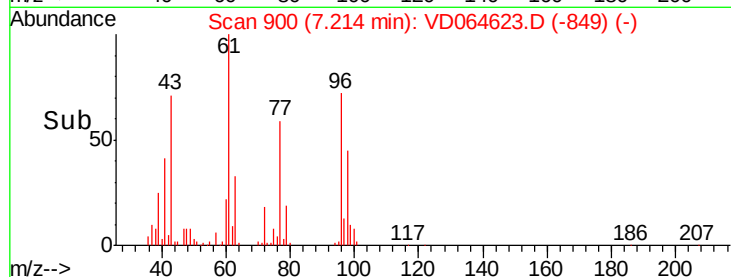
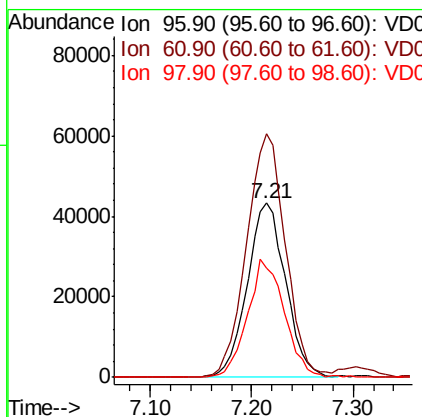
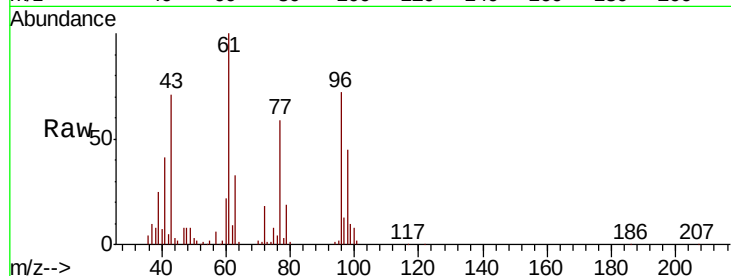
ClientSampleId :

LIED-BF001-01MSD

Tot Ion:	96	Resp:	113641
Ion	Ratio	Lower	Upper
96	100		
61	141.4	0.0	282.6
98	64.7	0.0	130.8

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#28

Bromochloromethane

Concen: 23.899 ug/l

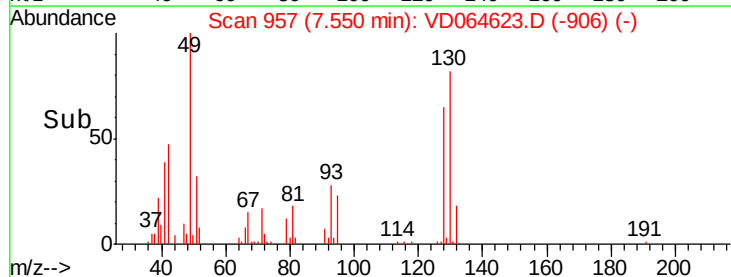
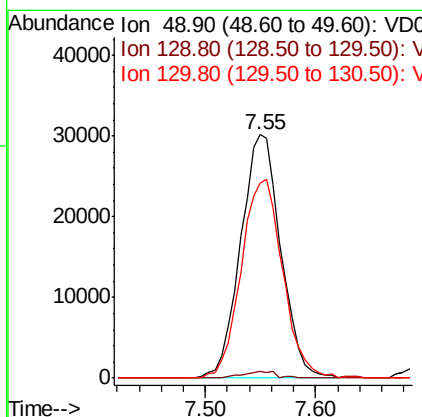
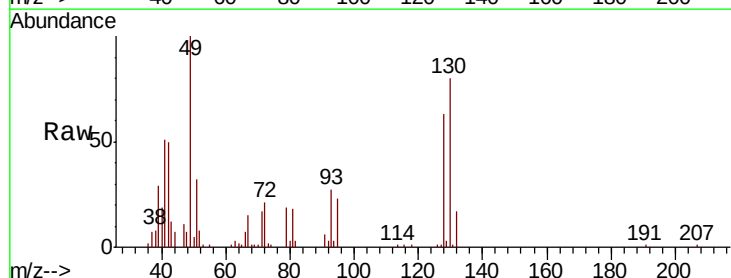
RT: 7.55 min Scan# 957

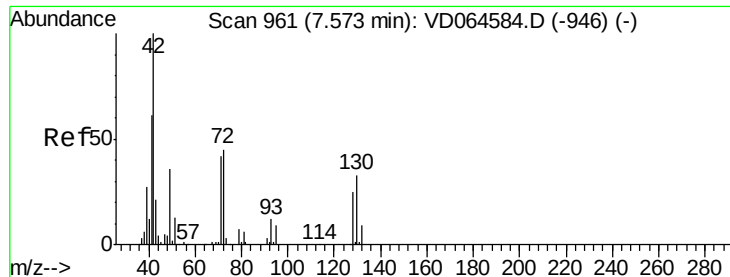
Delta R.T. 0.00 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Tgt Ion:	49	Resp:	76876
Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	4.8
130	84.3	65.0	97.6





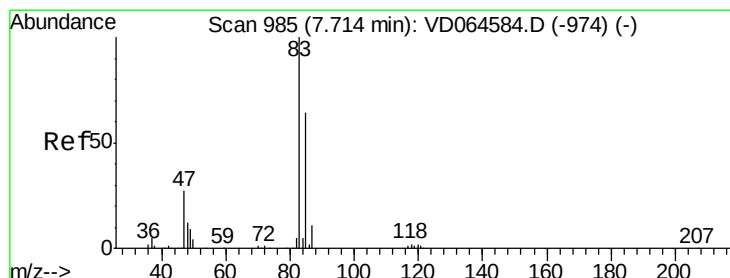
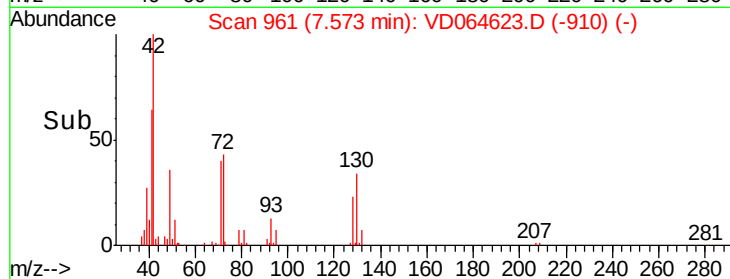
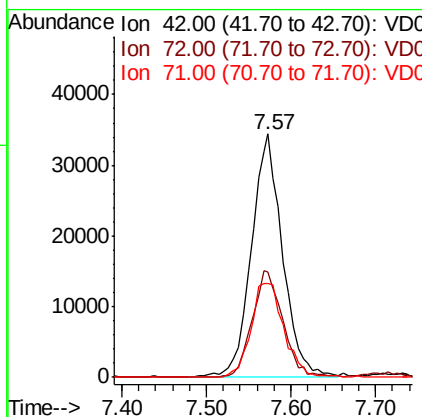
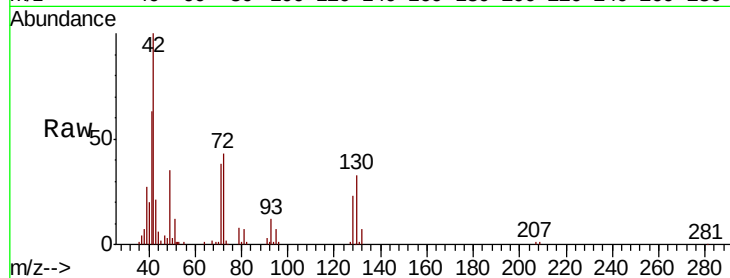
#29
Tetrahydrofuran
Concen: 116.391 ug/l
RT: 7.57 min Scan# 961
Delta R.T. 0.00 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Instrument :
MSVOA_D
ClientSampleId :
LIED-BF001-01MSD

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.3	35.0	52.4
71	40.8	32.9	49.3

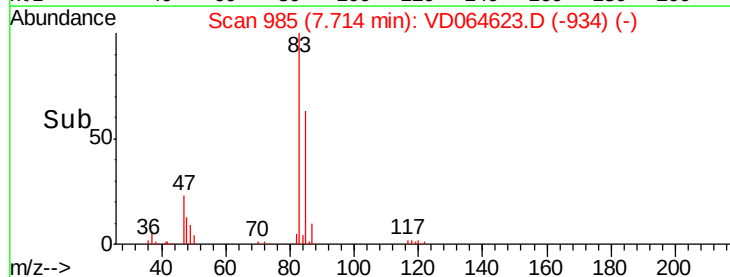
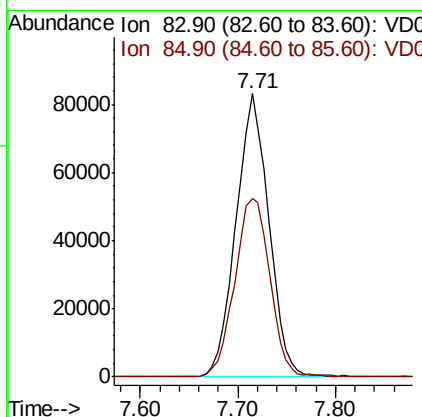
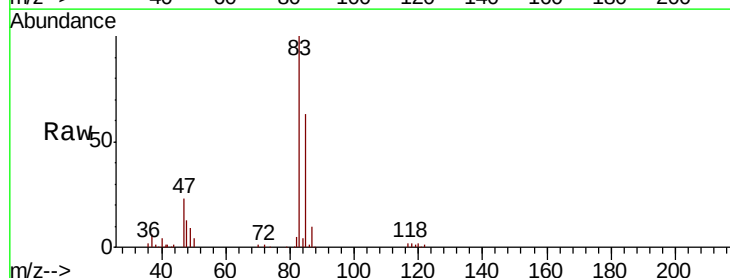
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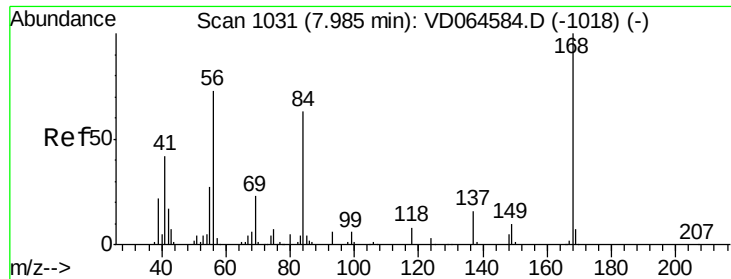
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#30
Chloroform
Concen: 22.386 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.9	51.1	76.7





#31

Cyclohexane

Concen: 11.523 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Instrument :

MSVOA_D

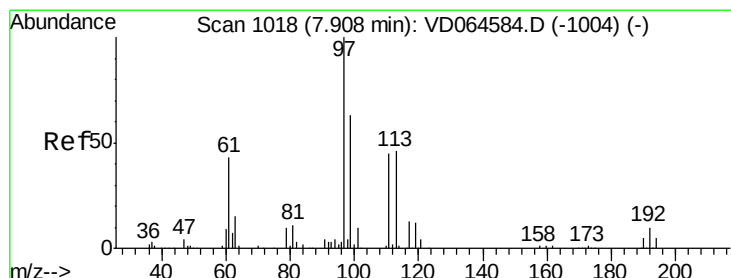
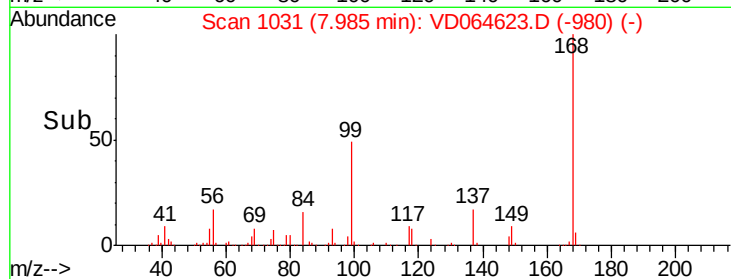
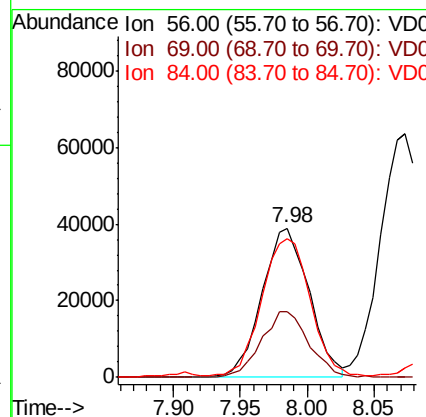
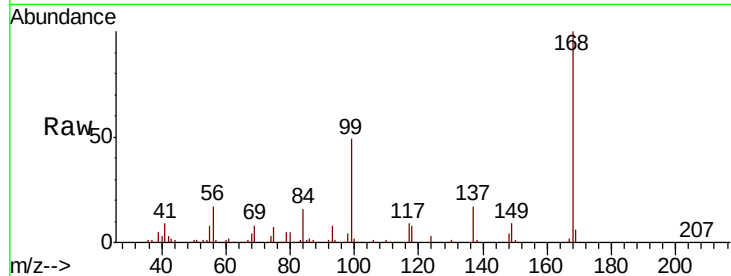
ClientSampleId :

LIED-BF001-01MSD

Tot Ion	56	Resp	95452
Ion Ratio	100	Lower	Upper
56	100		
69	44.4	24.7	37.1#
84	90.8	69.4	104.2

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 16.237 ug/l

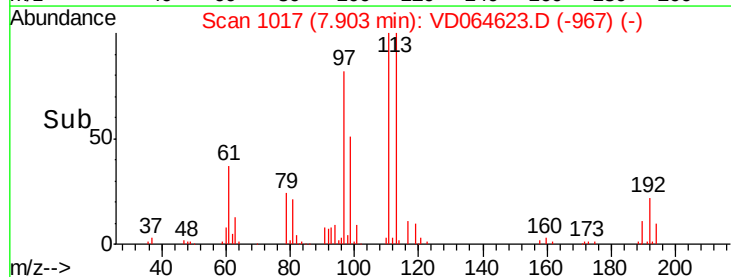
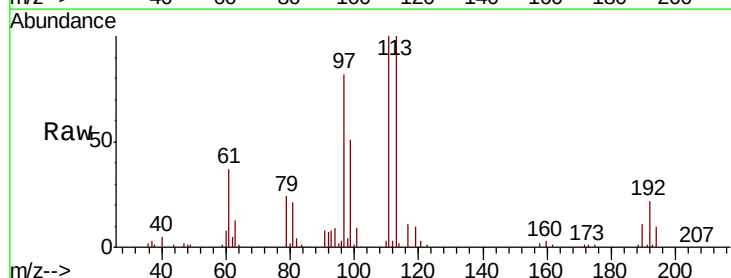
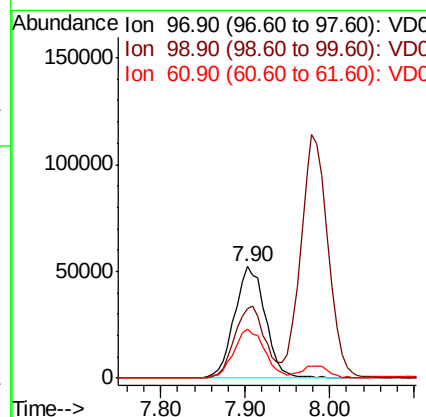
RT: 7.90 min Scan# 1017

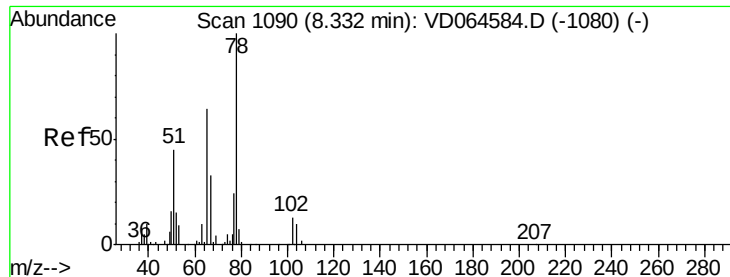
Delta R.T. -0.01 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Tgt Ion	97	Resp	132408
Ion Ratio	100	Lower	Upper
97	100		
99	62.1	51.0	76.6
61	43.9	35.4	53.0





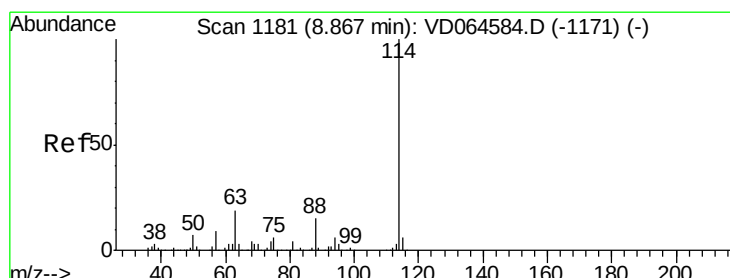
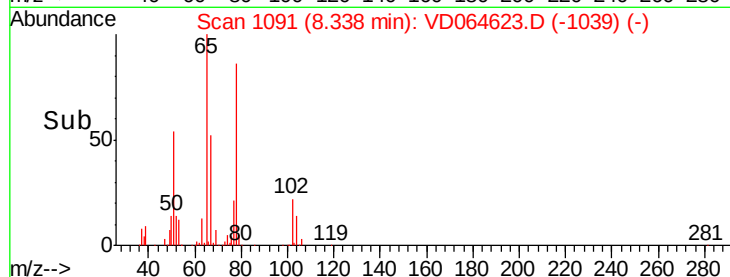
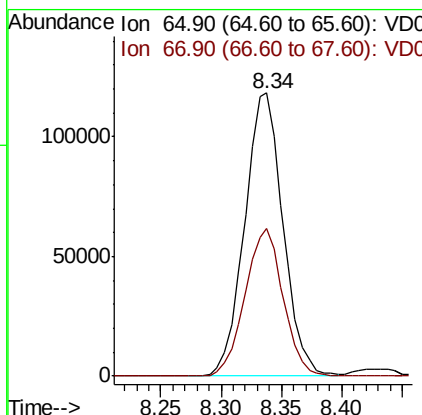
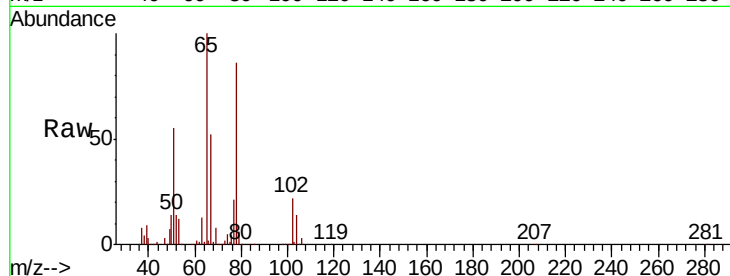
#33
 1,2-Dichloroethane-d4
 Concen: 59.059 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. 0.01 min
 Lab File: VD064623.D
 Acq: 27 Dec 2019 03:58

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-BF001-01MSD

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	52.0	0.0	106.2	

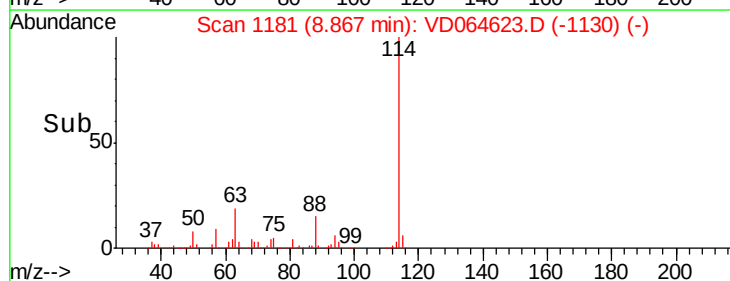
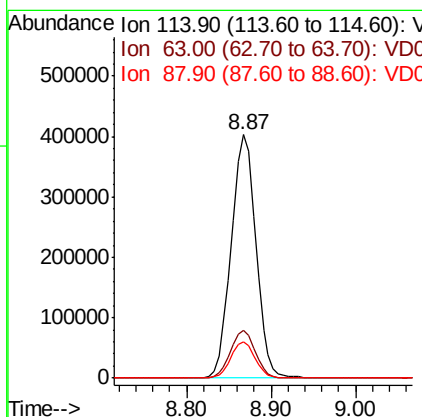
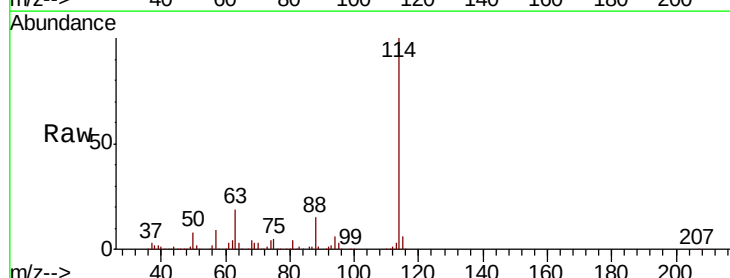
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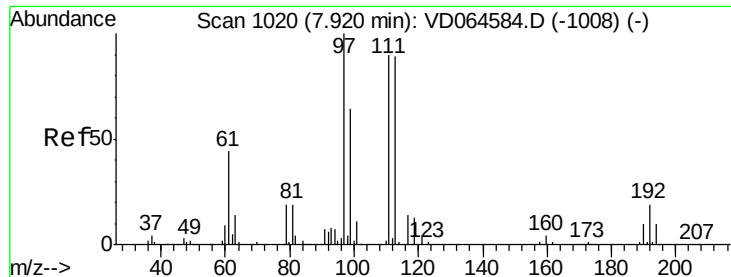
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064623.D
 Acq: 27 Dec 2019 03:58

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.4	0.0	38.0	
88	15.1	0.0	29.2	





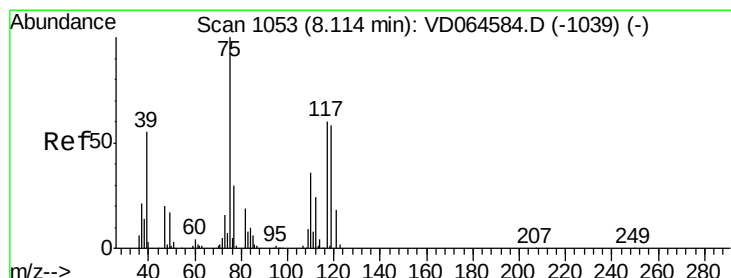
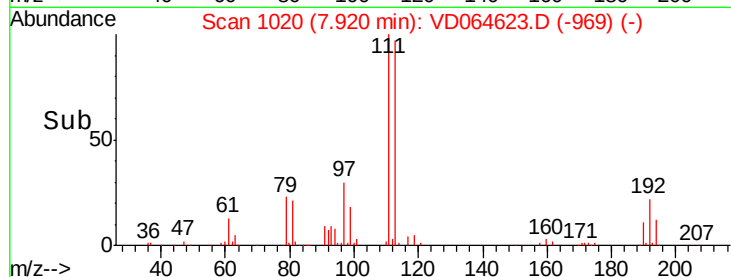
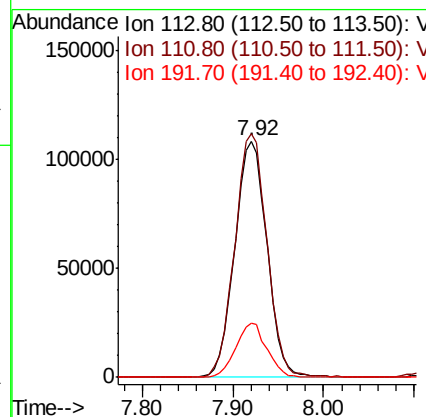
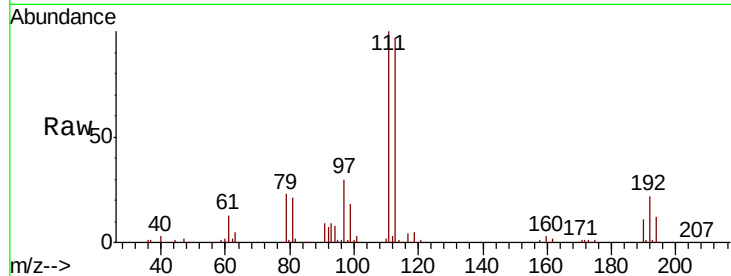
#35
 Dibromofluoromethane
 Concen: 53.834 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064623.D
 Acq: 27 Dec 2019 03:58

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-BF001-01MSD

Tot Ion	Ratio	Resp	Lower	Upper
113	100	267520		
111	103.1	80.6	121.0	
192	22.0	17.9	26.9	

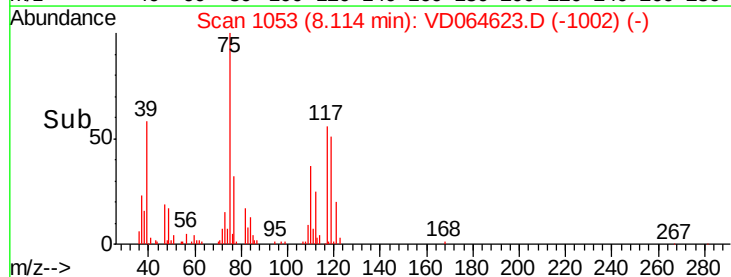
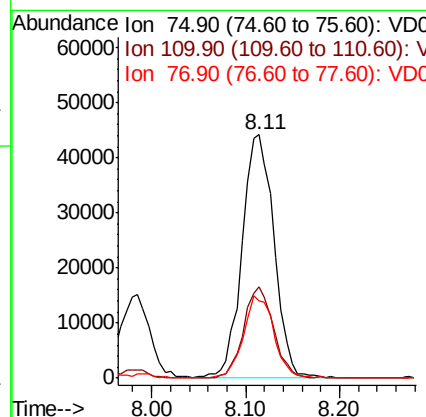
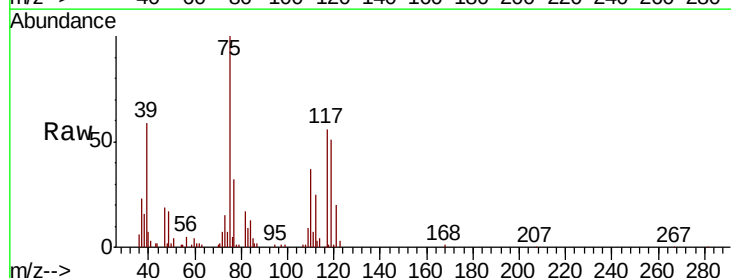
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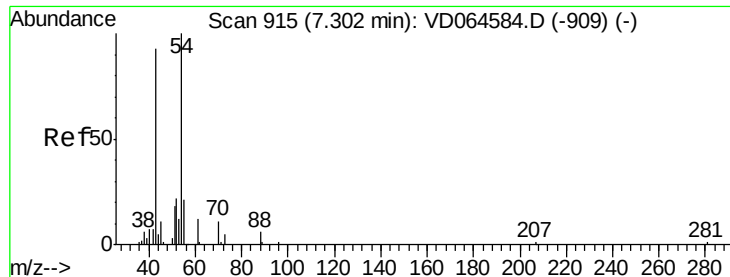
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#36
 1,1-Dichloropropene
 Concen: 13.336 ug/l
 RT: 8.11 min Scan# 1053
 Delta R.T. 0.00 min
 Lab File: VD064623.D
 Acq: 27 Dec 2019 03:58

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	103970		
110	35.0	18.1	54.1	
77	32.3	24.2	36.4	





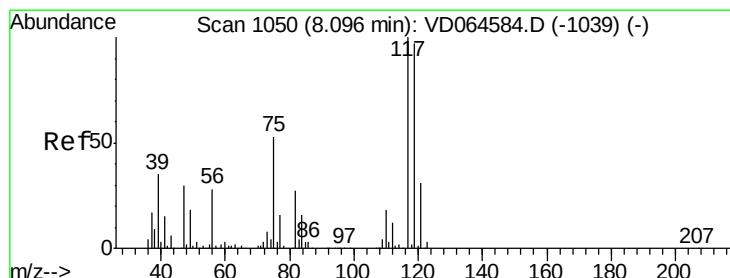
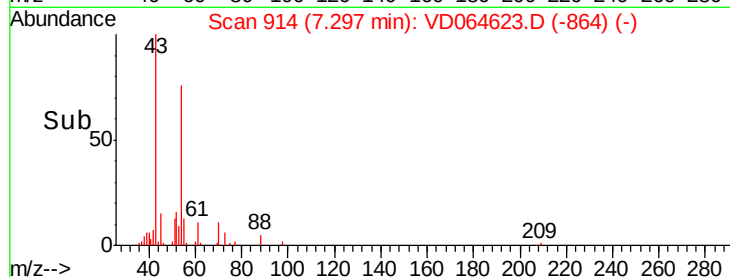
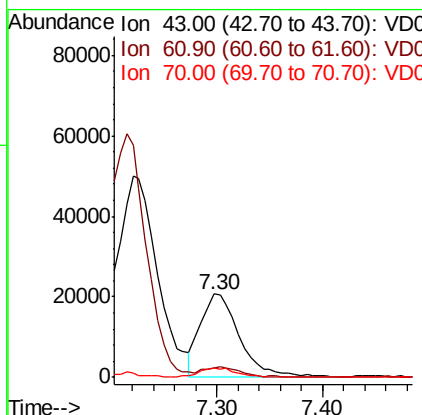
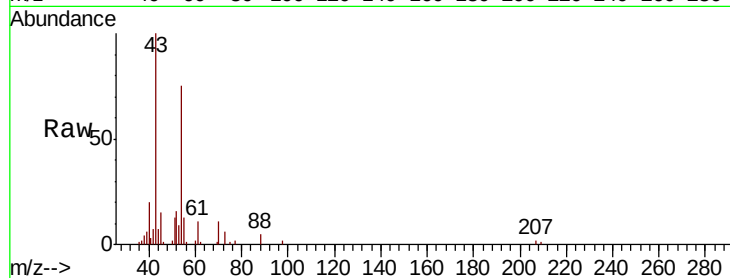
#37
Ethyl Acetate
Concen: 17.509 ug/l
RT: 7.30 min Scan# 914
Delta R.T. -0.01 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Instrument :
MSVOA_D
ClientSampleId :
LIED-BF001-01MSD

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.1	10.3	15.5
70	10.6	7.6	11.4

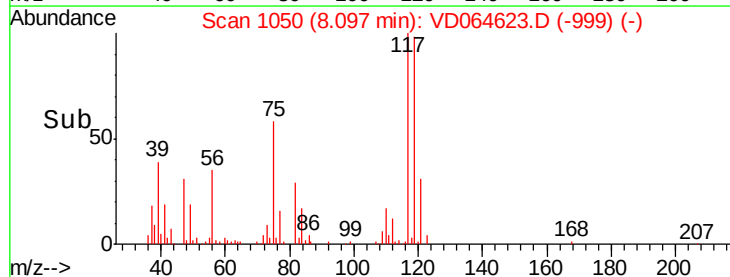
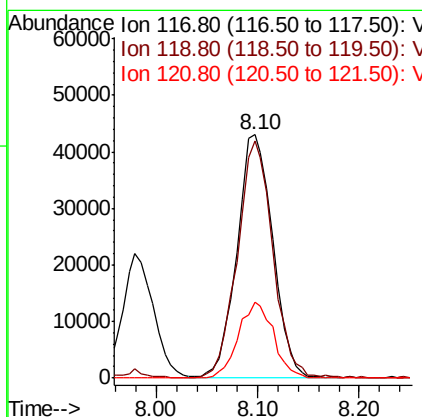
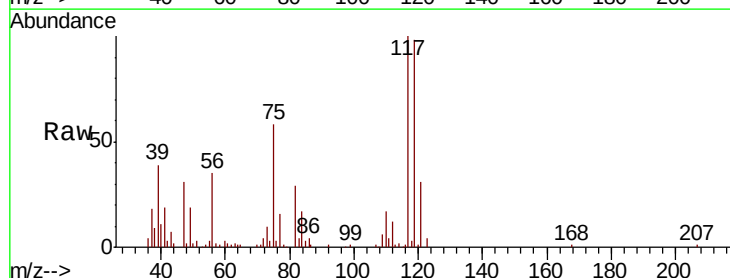
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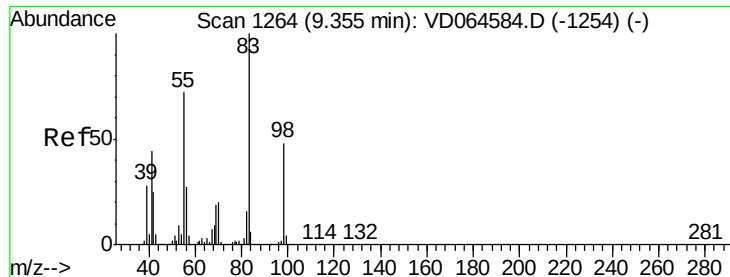
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#38
Carbon Tetrachloride
Concen: 12.725 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.5	77.3	115.9
121	31.2	25.0	37.6





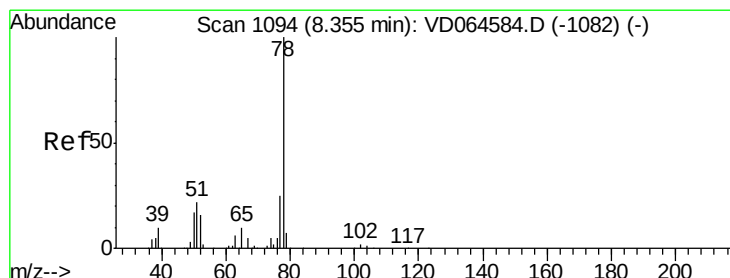
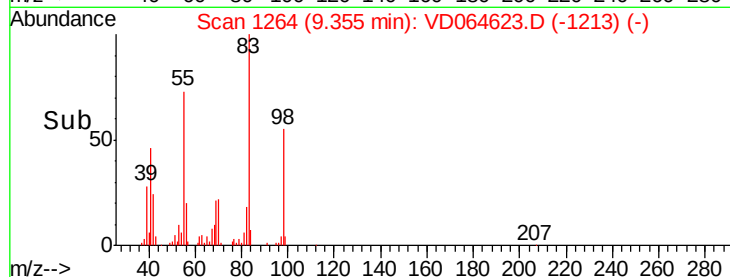
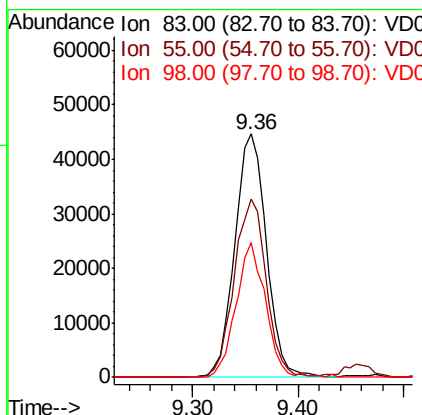
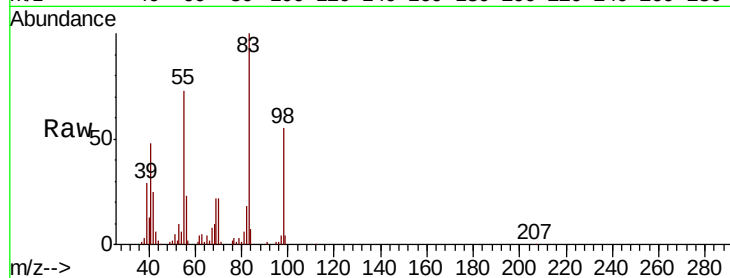
#39
Methylvlcyclohexane
Concen: 9.807 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Instrument :
MSVOA_D
ClientSampleId :
LIED-BF001-01MSD

Tot Ion	Ratio	Lower	Upper
83	100		
55	73.3	57.8	86.6
98	55.4	38.7	58.1

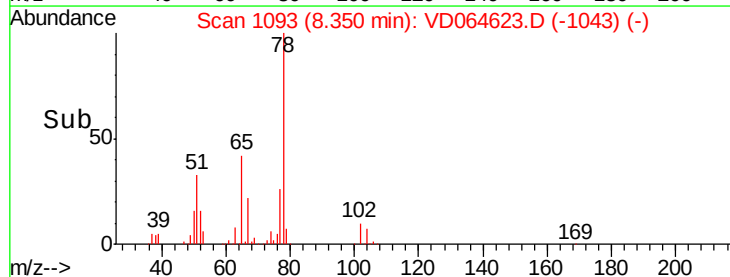
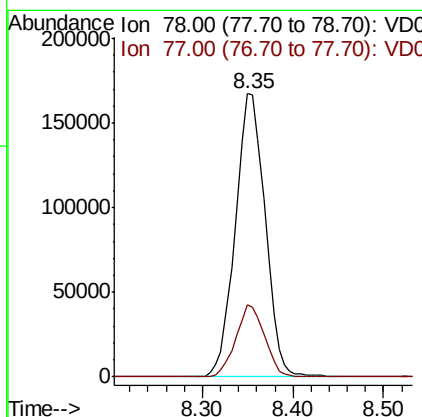
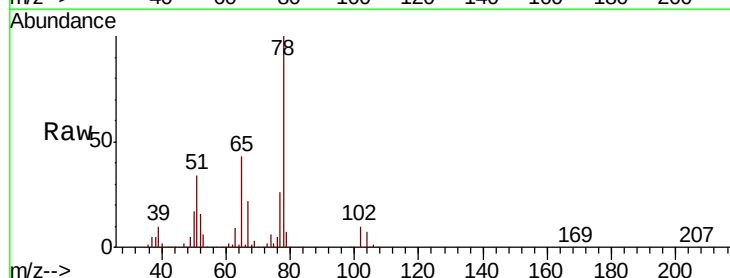
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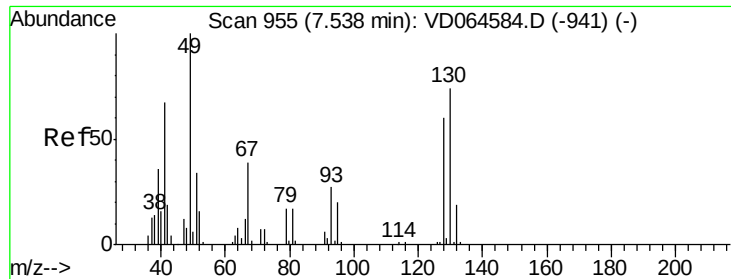
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#40
Benzene
Concen: 18.039 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.6	19.9	29.9





#41

Methacrylonitrile

Concen: 23.981 ug/l

RT: 7.54 min Scan# 955

Delta R.T. 0.00 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Instrument :

MSVOA_D

ClientSampleId :

LIED-BF001-01MSD

Tot Ion: 41 Resp: 42614

Ion Ratio Lower Upper

41 100

39 63.0 46.7 70.1

67 62.0 52.5 78.7

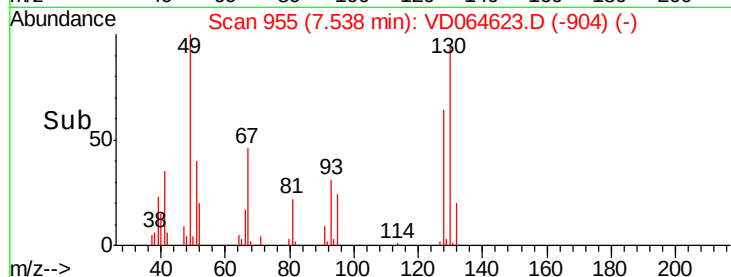
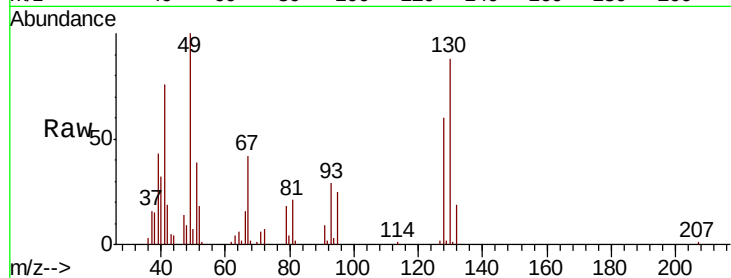
52 28.2 24.1 36.1

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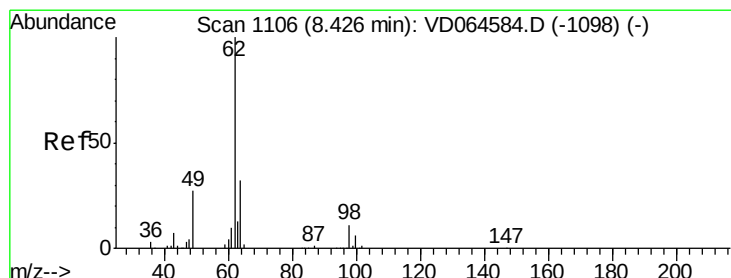
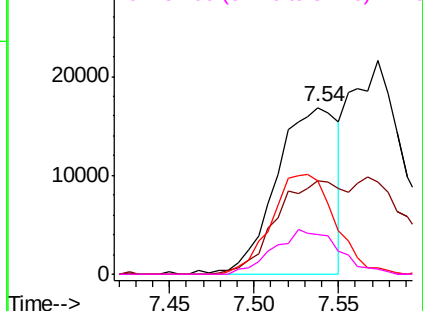


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 22.152 ug/l

RT: 8.43 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VD064623.D

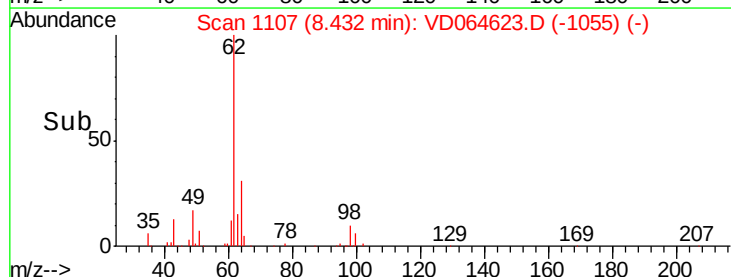
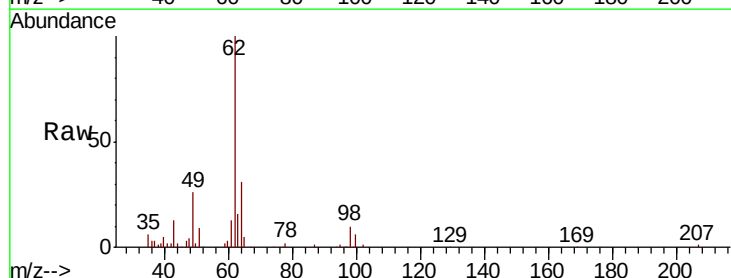
Acq: 27 Dec 2019 03:58

Tgt Ion: 62 Resp: 136238

Ion Ratio Lower Upper

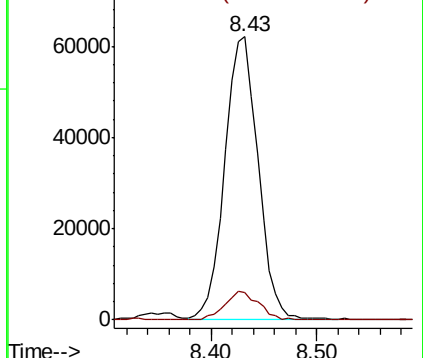
62 100

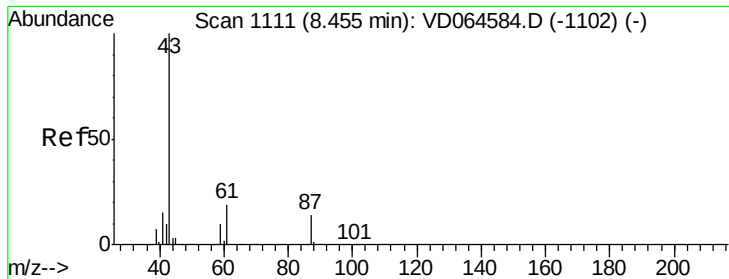
98 10.3 0.0 20.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 97.90 (97.60 to 98.60): VDC





#43

Isopropyl Acetate

Concen: 19.031 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Instrument :

MSVOA_D

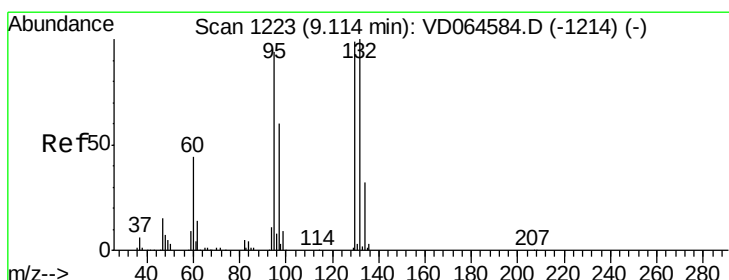
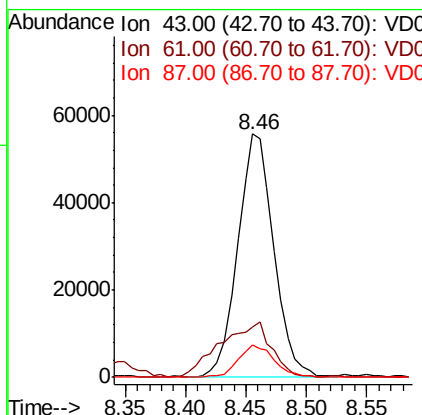
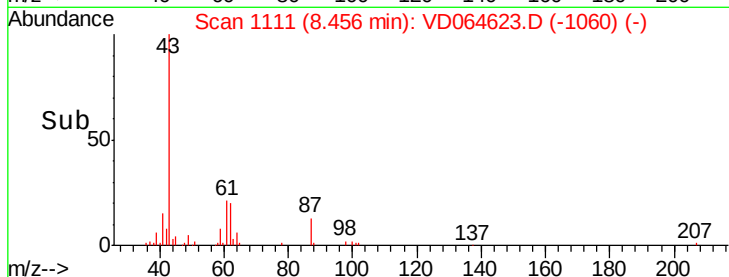
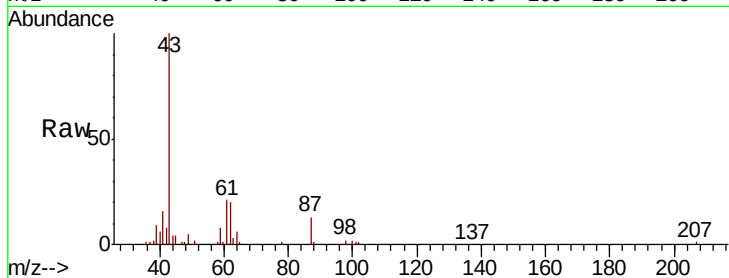
ClientSampleId :

LIED-BF001-01MSD

Tot Ion:	43	Resp:	116014
Ion	Ratio	Lower	Upper
43	100		
61	31.5	23.7	35.5
87	13.1	10.5	15.7

Manual Integrations
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#44

Trichloroethene

Concen: 16.539 ug/l

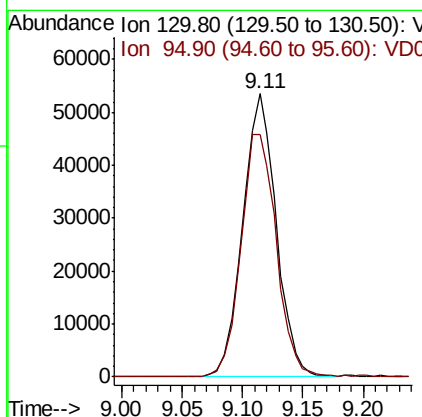
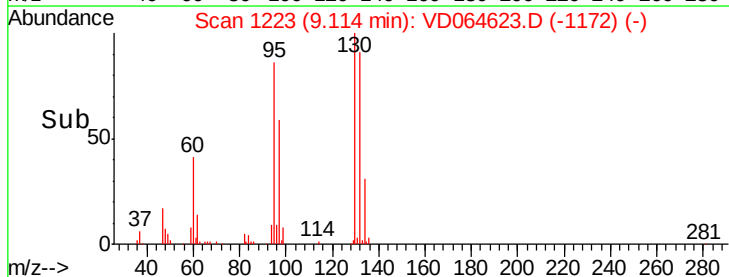
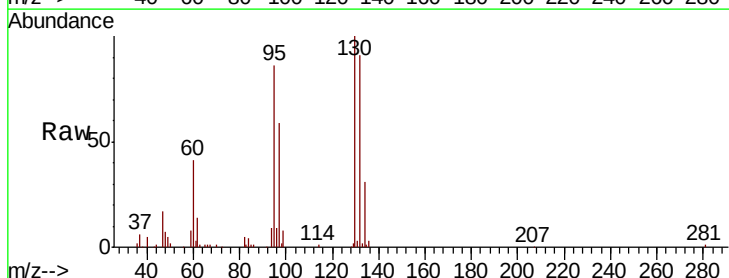
RT: 9.11 min Scan# 1223

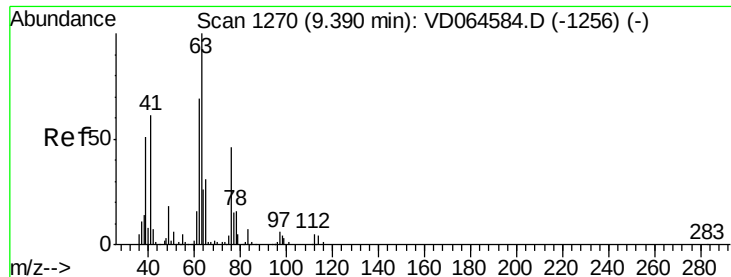
Delta R.T. 0.00 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Tgt Ion:	130	Resp:	103404
Ion	Ratio	Lower	Upper
130	100		
95	85.5	0.0	190.2





#45

1,2-Dichloropropane

Concen: 21.323 ug/l

RT: 9.39 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Instrument :

MSVOA_D

ClientSampleId :

LIED-BF001-01MSD

Tot Ion: 63 Resp: 108350

Ion Ratio Lower Upper

63 100

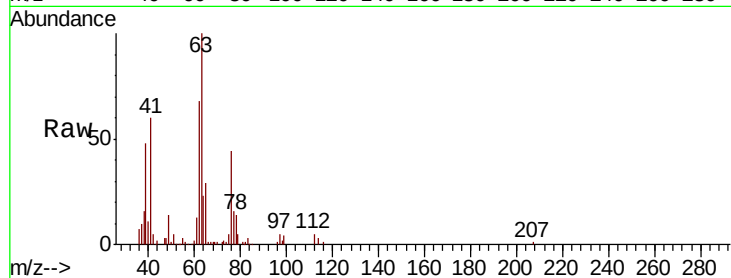
65 28.8 25.2 37.8

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Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 64.90 (64.60 to 65.60): VDC

60000

50000

40000

30000

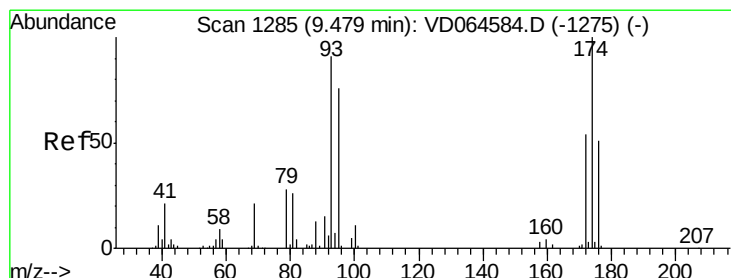
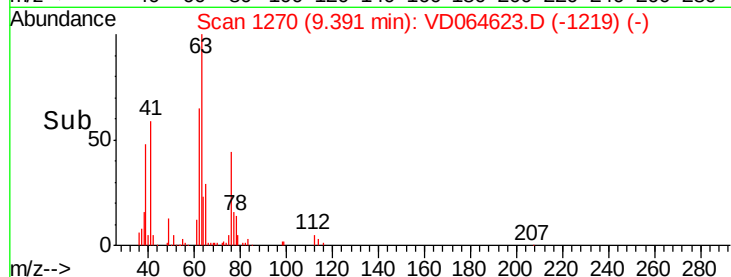
20000

10000

0

9.30 9.40 9.50

Time-->



#46

Dibromomethane

Concen: 21.732 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. 0.00 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

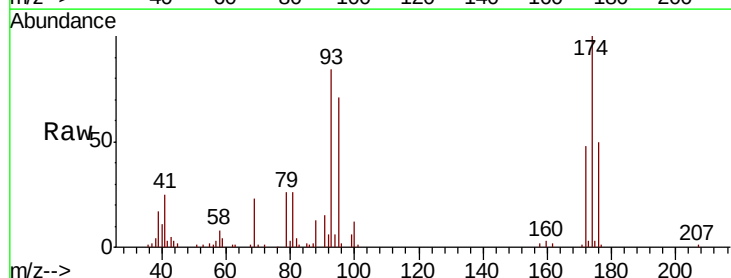
Tgt Ion: 93 Resp: 61569

Ion Ratio Lower Upper

93 100

95 83.2 64.6 97.0

174 112.7 88.1 132.1



Abundance Ion 92.80 (92.50 to 93.50): VDC

Ion 94.80 (94.50 to 95.50): VDC

Ion 173.70 (173.40 to 174.40): V

40000

30000

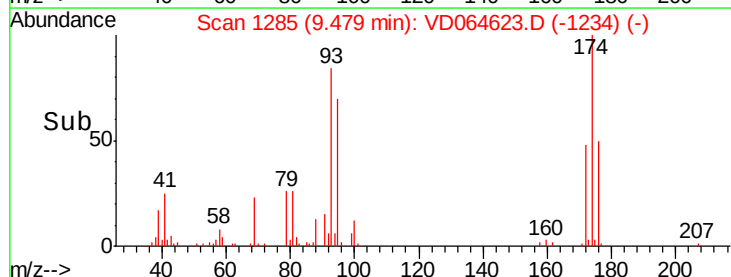
20000

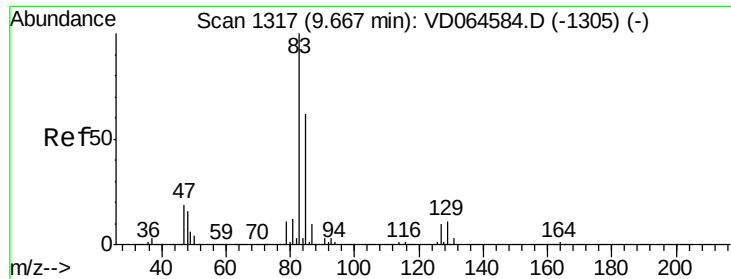
10000

0

9.40 9.45 9.50 9.55 9.60

Time-->





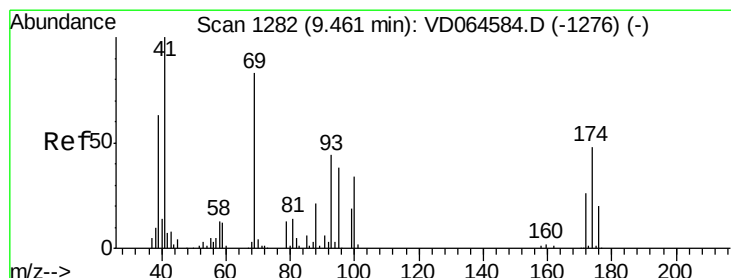
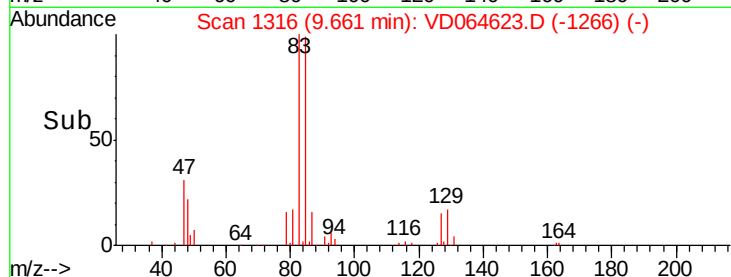
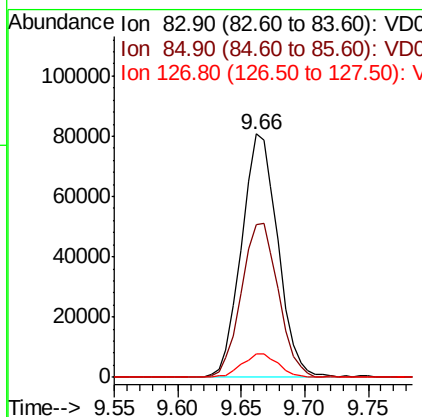
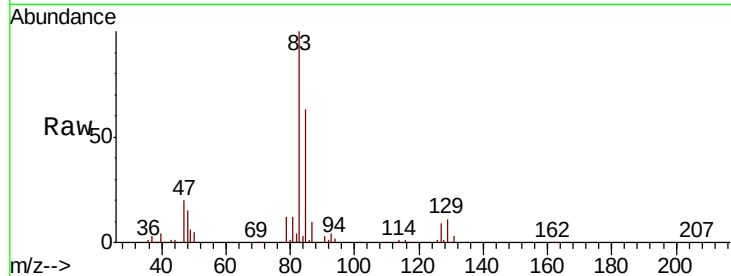
#47
Bromodichloromethane
Concen: 21.283 ug/l
RT: 9.66 min Scan# 1316
Delta R.T. -0.01 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Instrument :
MSVOA_D
ClientSampleId :
LIED-BF001-01MSD

Tot Ion	Ratio	Lower	Upper
83	100		
85	62.7	49.5	74.3
127	9.4	7.8	11.6

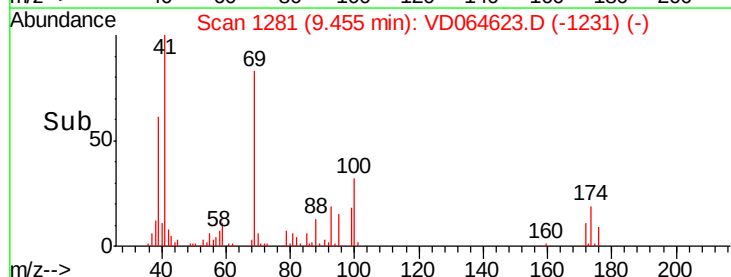
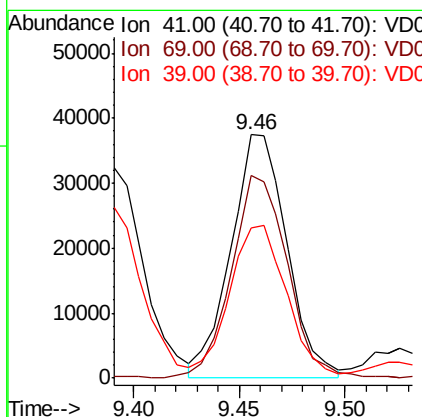
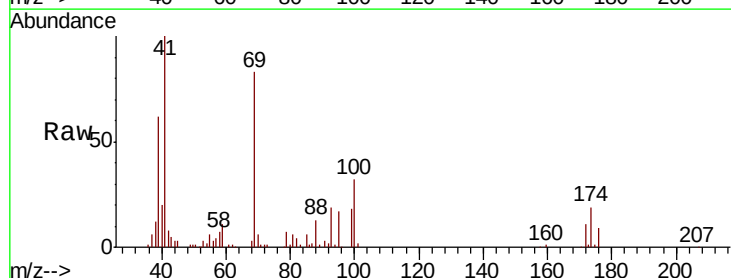
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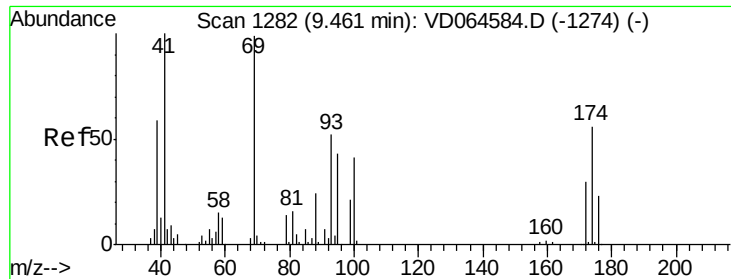
apatel
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#48
Methyl methacrylate
Concen: 23.826 ug/l
RT: 9.46 min Scan# 1281
Delta R.T. -0.01 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Tgt Ion	Ratio	Lower	Upper
41	100		
69	83.8	63.0	94.6
39	64.9	47.4	71.2





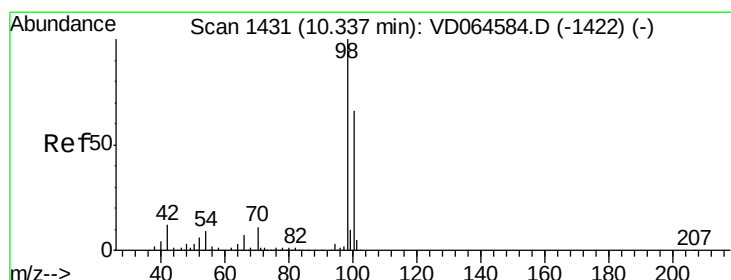
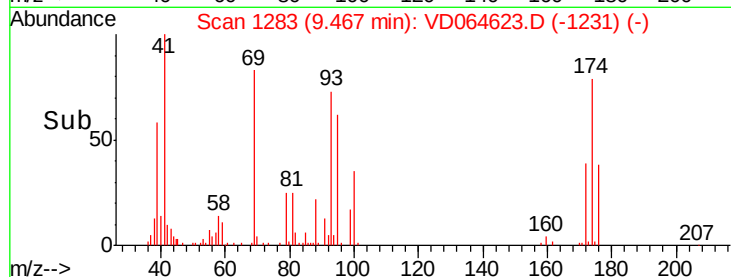
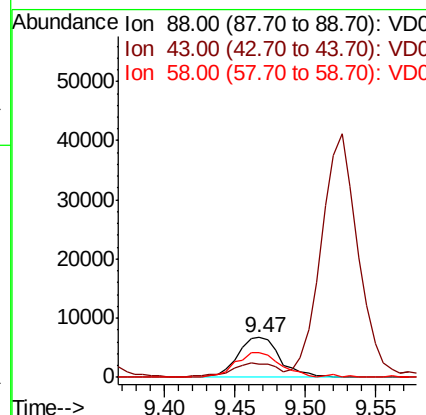
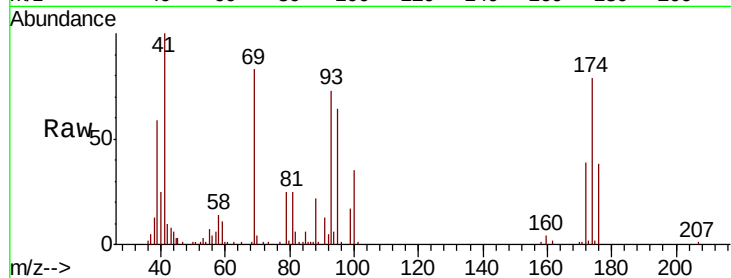
#49
1,4-Dioxane
Concen: 431.563 ug/l
RT: 9.47 min Scan# 1283
Delta R.T. 0.01 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Instrument :
MSVOA_D
ClientSampleId :
LIED-BF001-01MSD

Tot Ion	88	Resp	14098
Ion Ratio	Lower	Upper	
88	100		
43	38.7	27.7	41.5
58	65.3	53.8	80.6

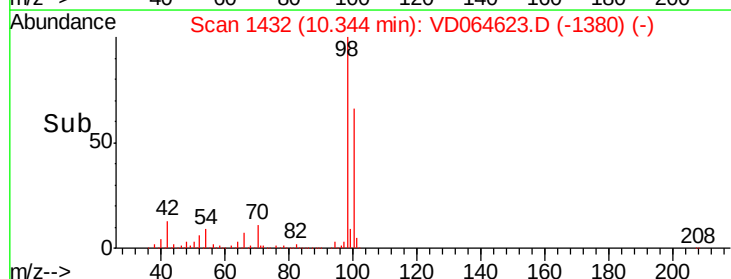
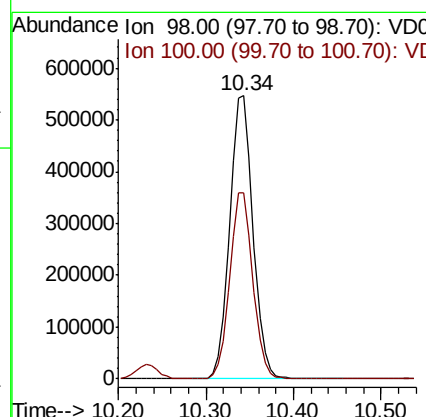
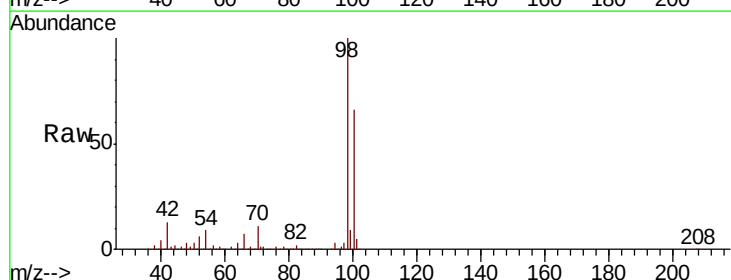
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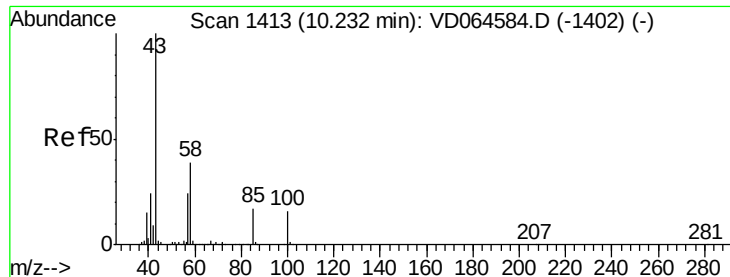
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#50
Toluene-d8
Concen: 52.422 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Tgt Ion	98	Resp	997699
Ion Ratio	Lower	Upper	
98	100		
100	65.1	51.7	77.5





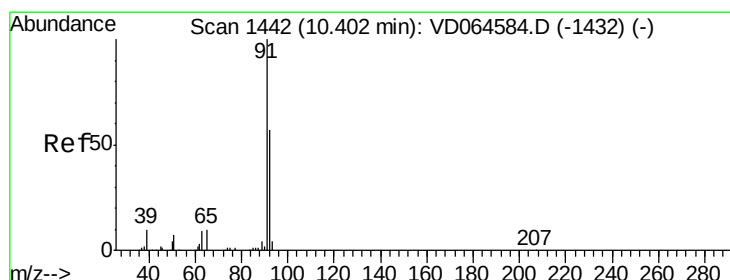
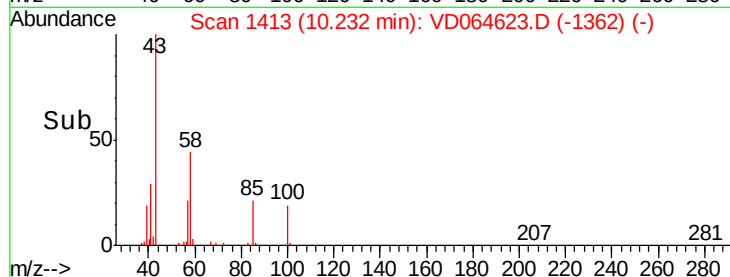
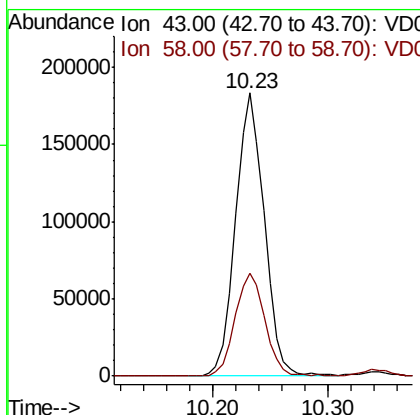
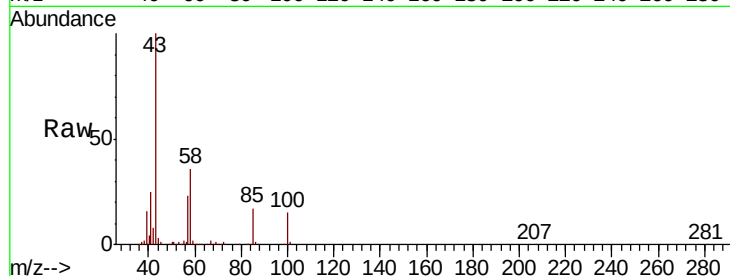
#51
4-Methyl-2-Pentanone
Concen: 104.918 ug/l
RT: 10.23 min Scan# 1413
Delta R.T. 0.00 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Instrument :
MSVOA_D
ClientSampleId :
LIED-BF001-01MSD

Tot Ion	Ratio	Lower	Upper
43	100		
58	37.7	30.2	45.2

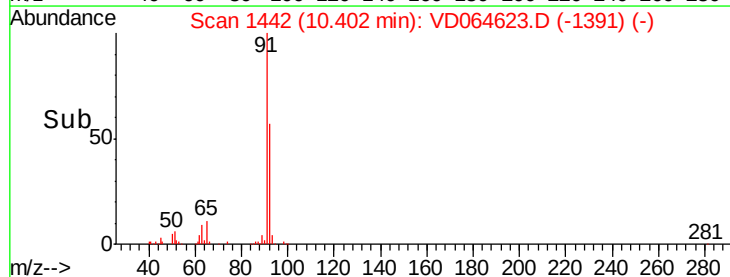
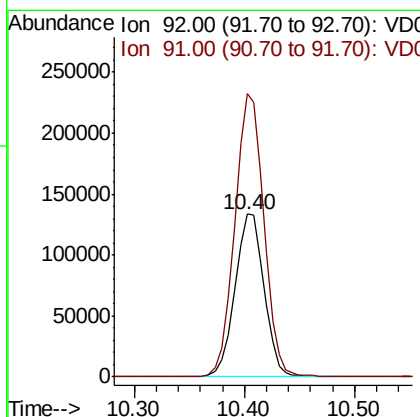
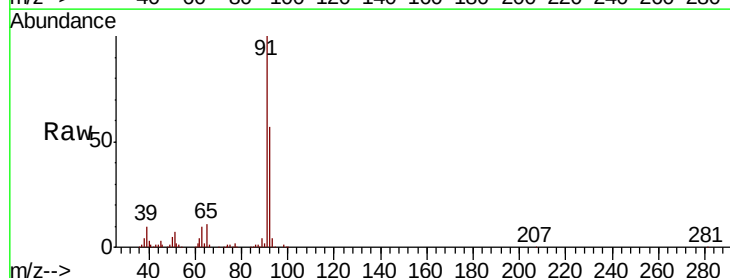
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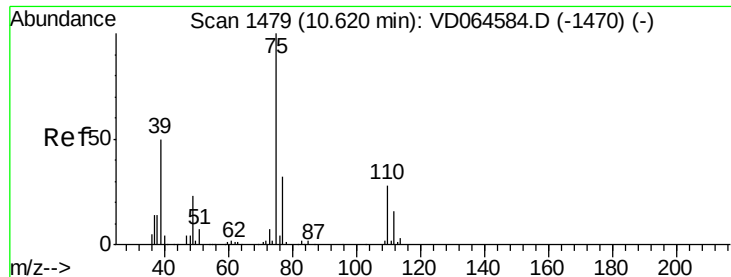
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#52
Toluene
Concen: 17.755 ug/l
RT: 10.40 min Scan# 1442
Delta R.T. 0.00 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Tgt Ion	Ratio	Lower	Upper
92	100		
91	173.8	138.7	208.1





#53

t-1,3-Dichloropropene

Concen: 21.524 ug/l

RT: 10.63 min Scan# 1480

Delta R.T. 0.01 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Instrument :

MSVOA_D

ClientSampleId :

LIED-BF001-01MSD

Tot Ion: 75 Resp: 151280

Ion Ratio Lower Upper

75 100

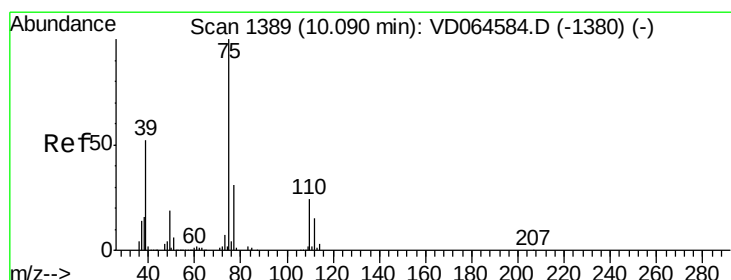
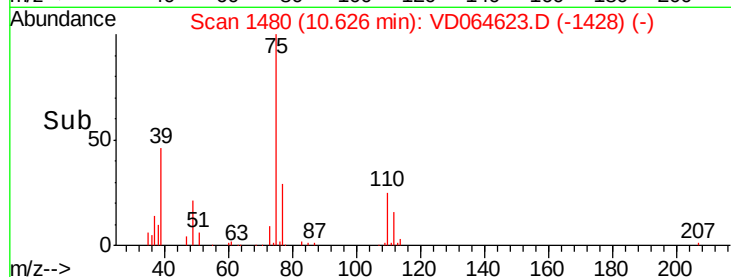
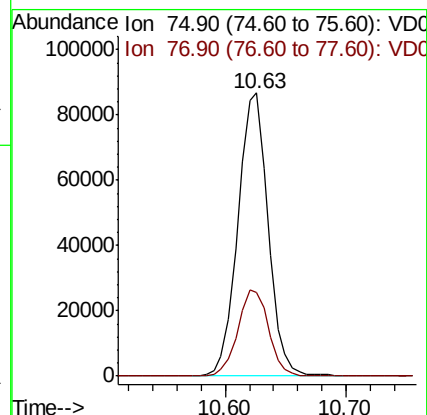
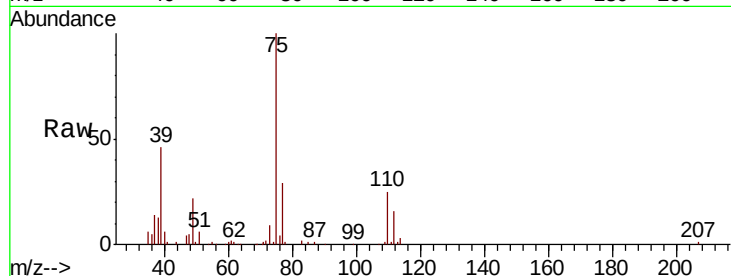
77 29.4 25.4 38.2

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 20.997 ug/l

RT: 10.09 min Scan# 1389

Delta R.T. 0.00 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

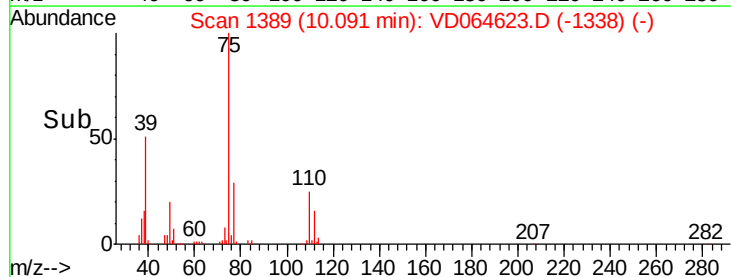
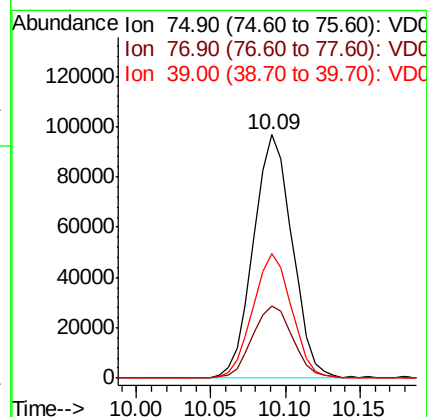
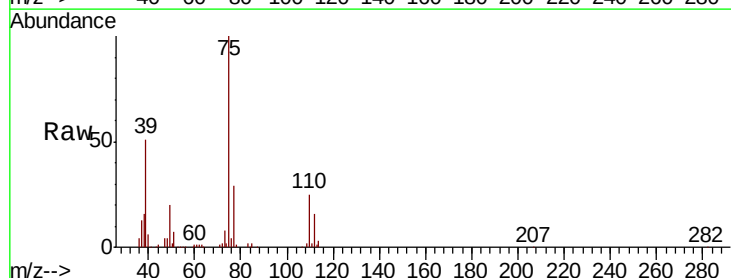
Tgt Ion: 75 Resp: 174013

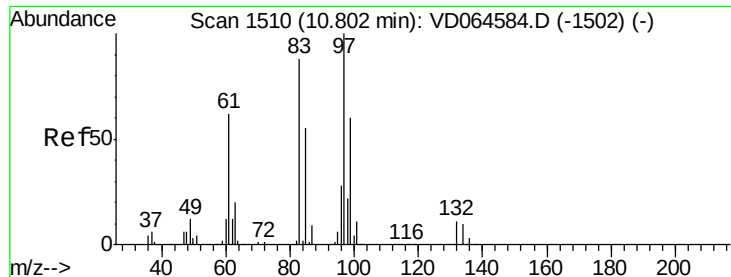
Ion Ratio Lower Upper

75 100

77 29.4 24.6 36.8

39 50.9 41.4 62.2





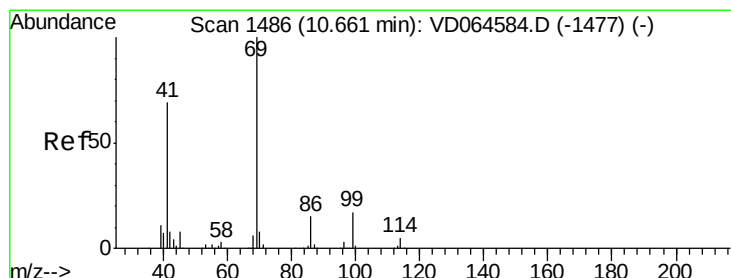
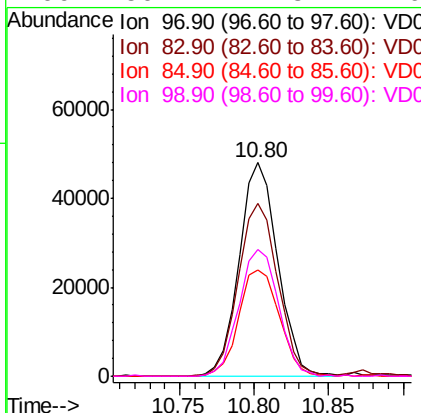
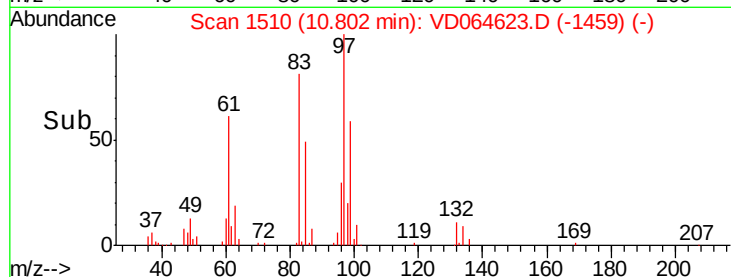
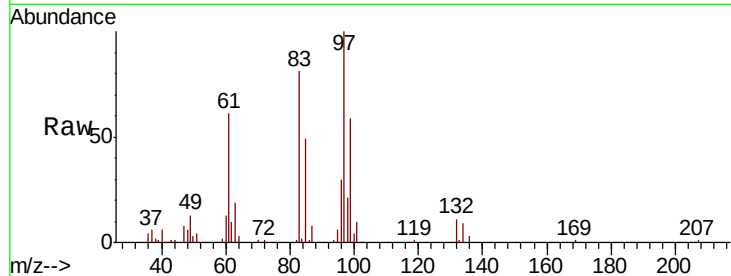
#55
 1,1,2-Trichloroethane
 Concen: 22.530 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. 0.00 min
 Lab File: VD064623.D
 Acq: 27 Dec 2019 03:58

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-BF001-01MSD

Tot Ion	Ratio	Lower	Upper
97	100		
83	81.1	70.2	105.4
85	49.5	44.0	66.0
99	59.4	47.8	71.6

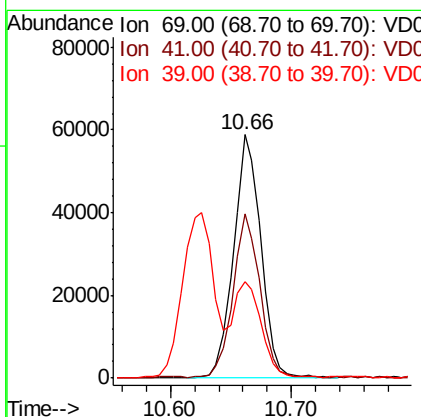
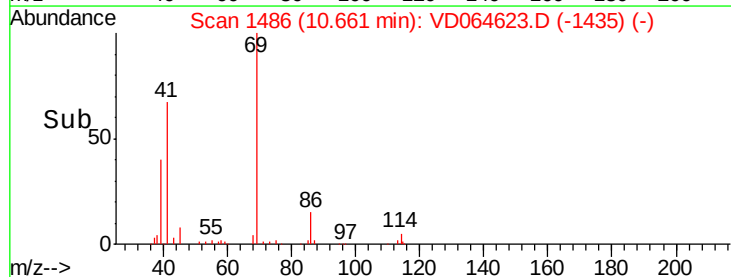
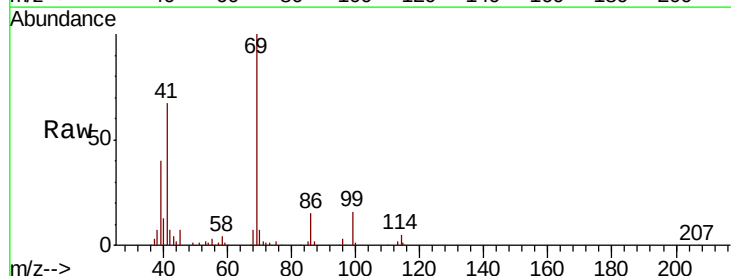
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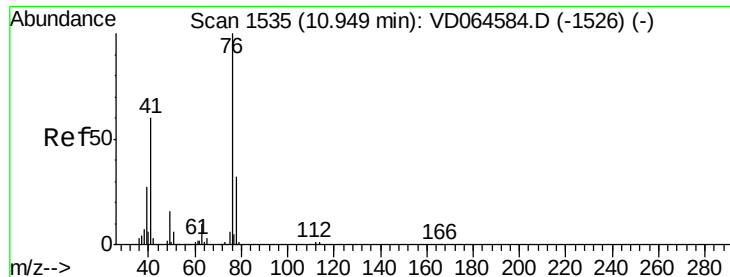
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#56
 Ethyl methacrylate
 Concen: 19.469 ug/l
 RT: 10.66 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VD064623.D
 Acq: 27 Dec 2019 03:58

Tgt Ion	Ratio	Lower	Upper
69	100		
41	67.1	55.3	82.9
39	40.8	33.8	50.8





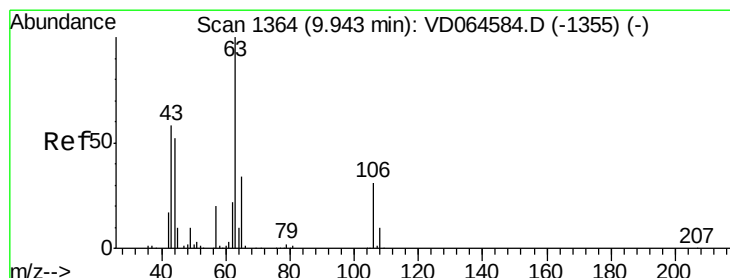
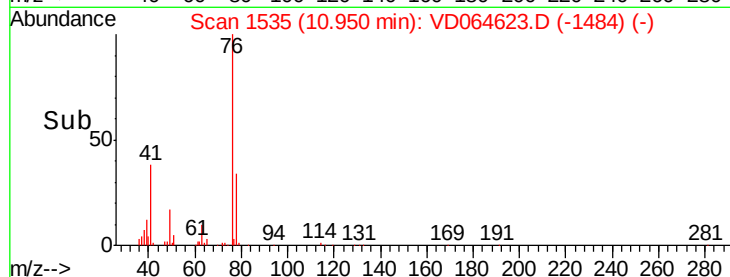
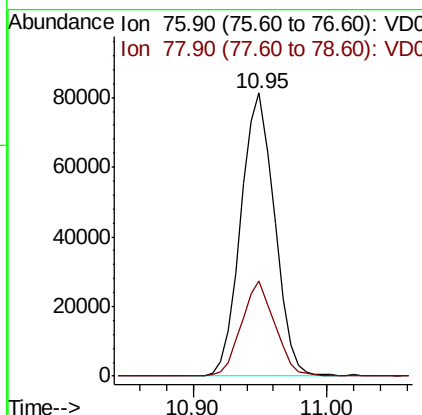
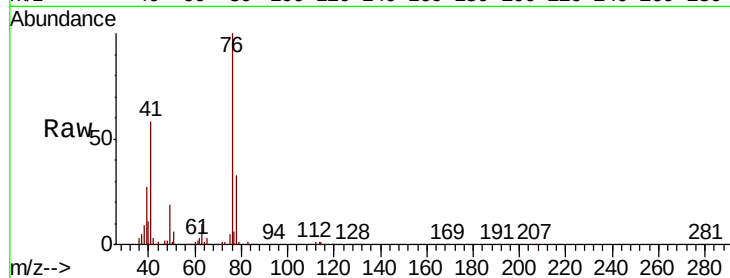
#57
 1,3-Dichloropropane
 Concen: 21.632 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. 0.00 min
 Lab File: VD064623.D
 Acq: 27 Dec 2019 03:58

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-BF001-01MSD

Tot Ion	Ratio	Lower	Upper
76	100		
78	33.1	26.2	39.4

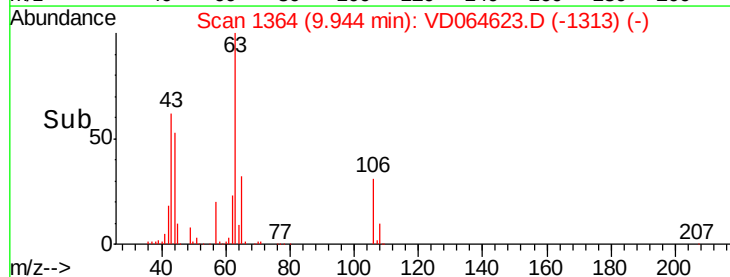
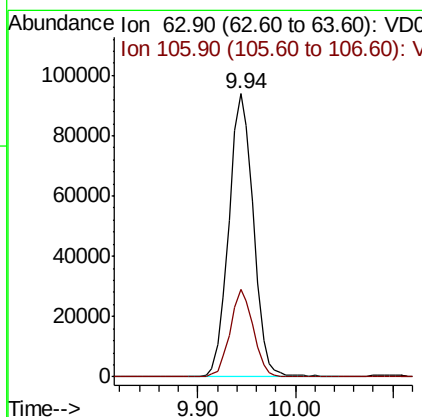
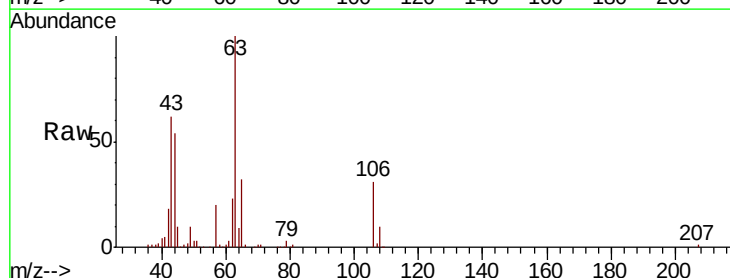
Manual Integrations
 APPROVED

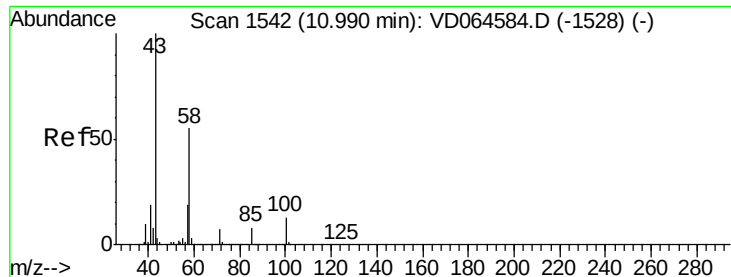
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 12/27/2019 2:07:29 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 90.205 ug/l
 RT: 9.94 min Scan# 1364
 Delta R.T. 0.00 min
 Lab File: VD064623.D
 Acq: 27 Dec 2019 03:58

Tgt Ion	Ratio	Lower	Upper
63	100		
106	29.1	23.8	35.8





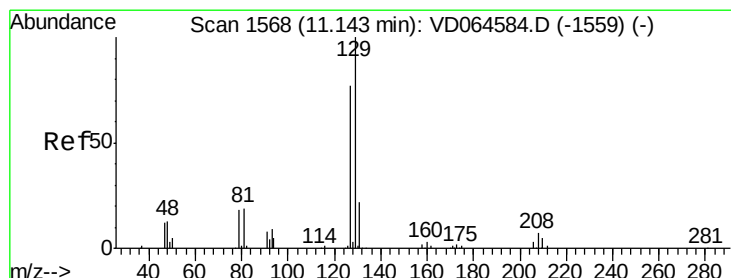
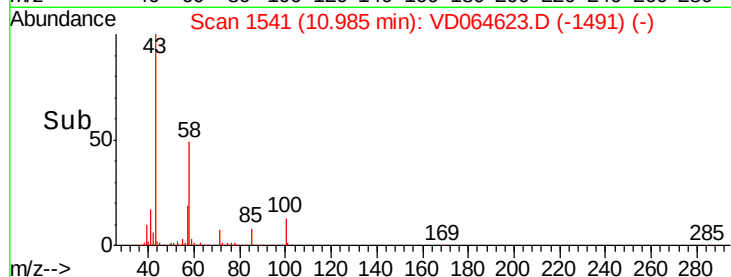
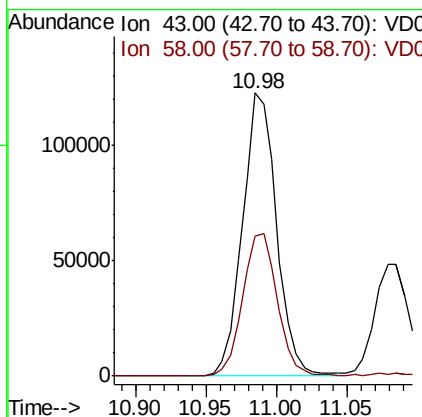
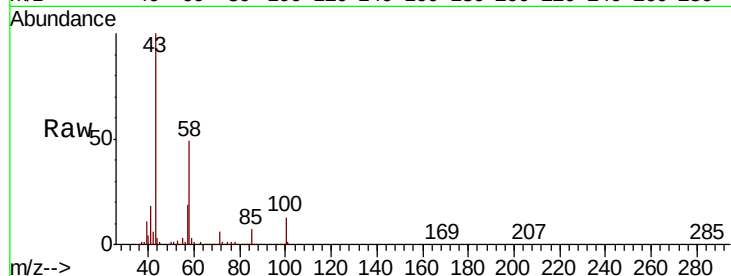
#59
2-Hexanone
Concen: 101.530 ug/l
RT: 10.98 min Scan# 1541
Delta R.T. -0.01 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Instrument :
MSVOA_D
ClientSampleId :
LIED-BF001-01MSD

Tot Ion: 43 Resp: 207637
Ion Ratio Lower Upper
43 100
58 51.2 26.4 79.0

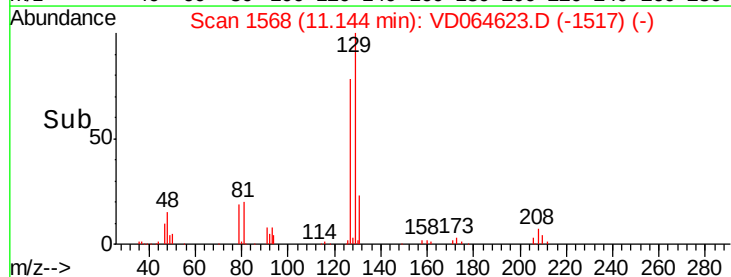
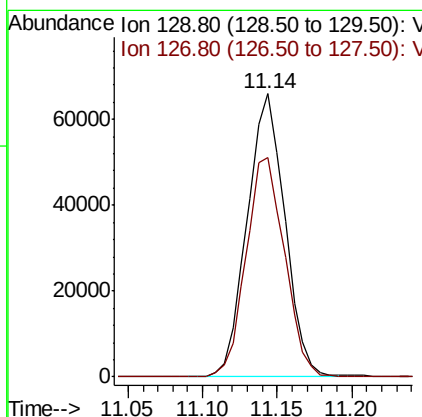
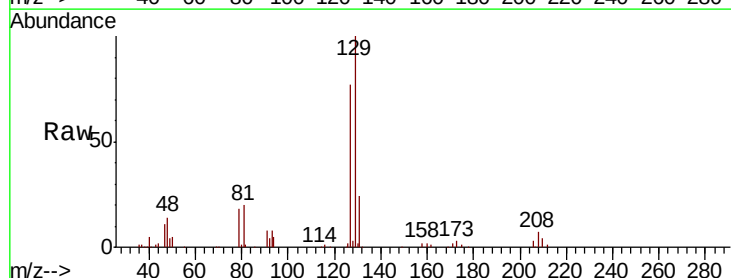
Manual Integrations
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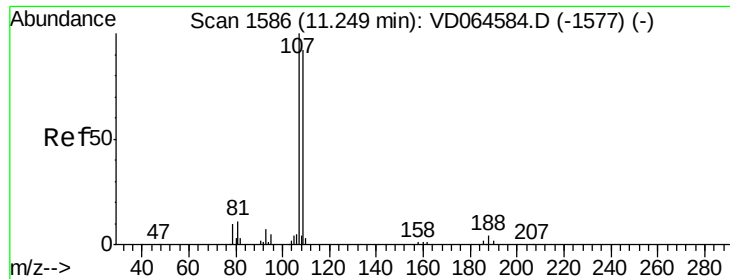
apatel
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#60
Dibromochloromethane
Concen: 21.859 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Tgt Ion: 129 Resp: 115410
Ion Ratio Lower Upper
129 100
127 79.2 38.4 115.2





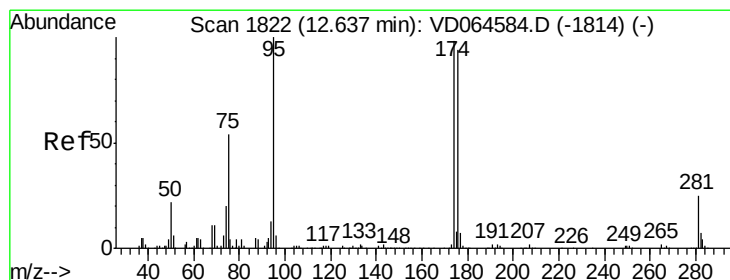
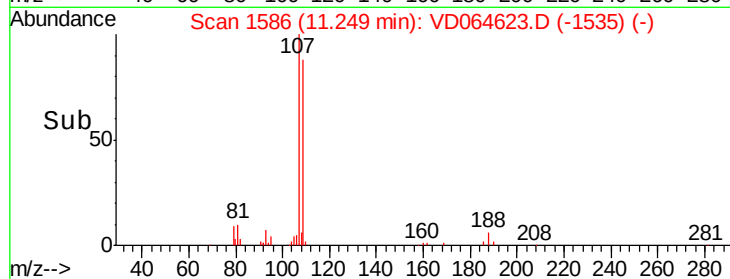
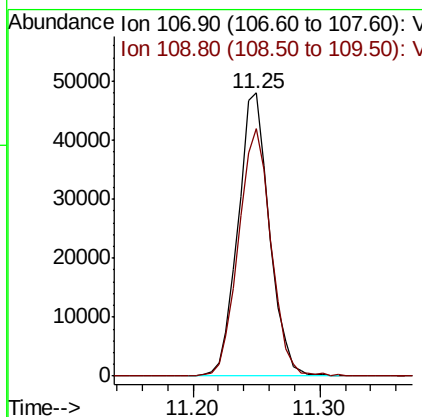
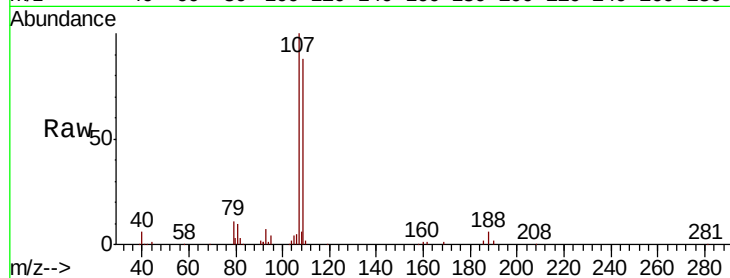
#61
 1,2-Dibromoethane
 Concen: 21.900 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. 0.00 min
 Lab File: VD064623.D
 Acq: 27 Dec 2019 03:58

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-BF001-01MSD

Tot Ion:107 Resp: 82472
 Ion Ratio Lower Upper
 107 100
 109 90.4 75.6 113.4

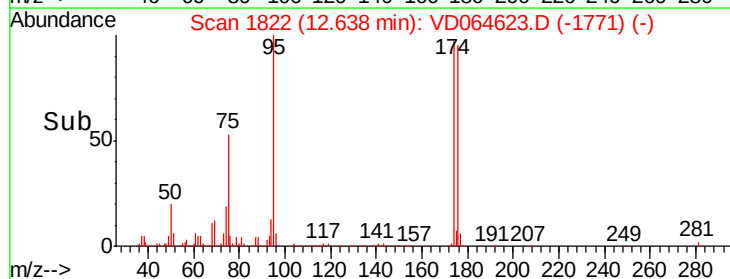
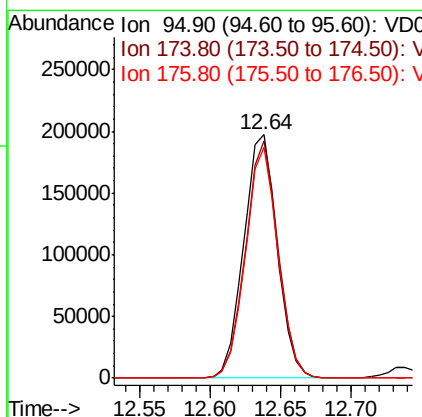
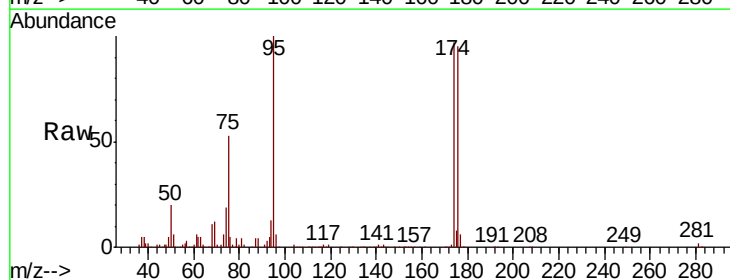
Manual Integrations
 APPROVED

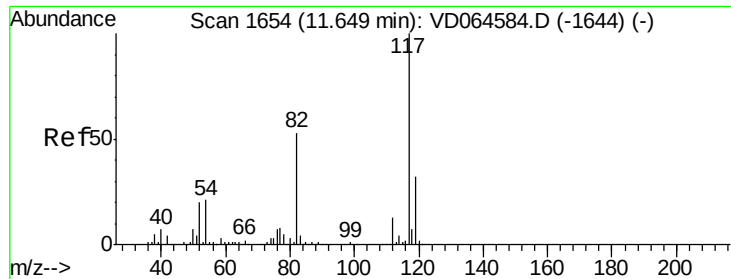
apatel
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#62
 4-Bromofluorobenzene
 Concen: 54.548 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.00 min
 Lab File: VD064623.D
 Acq: 27 Dec 2019 03:58

Tgt Ion: 95 Resp: 328279
 Ion Ratio Lower Upper
 95 100
 174 95.1 0.0 193.2
 176 91.9 0.0 184.2





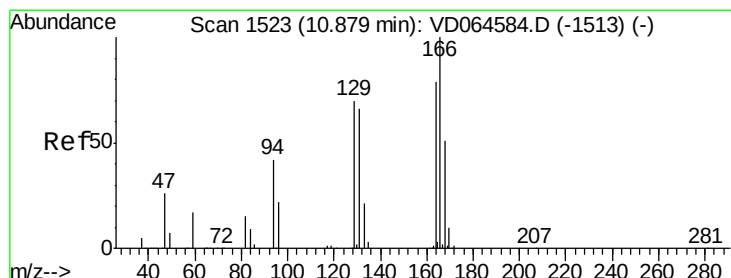
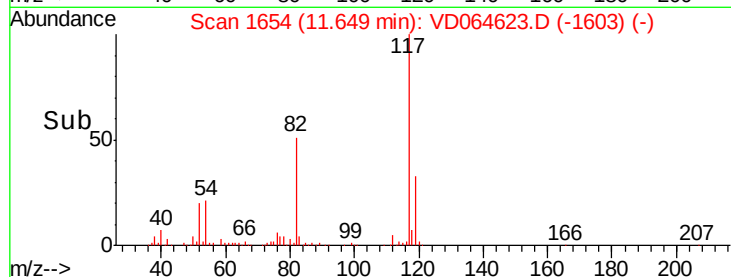
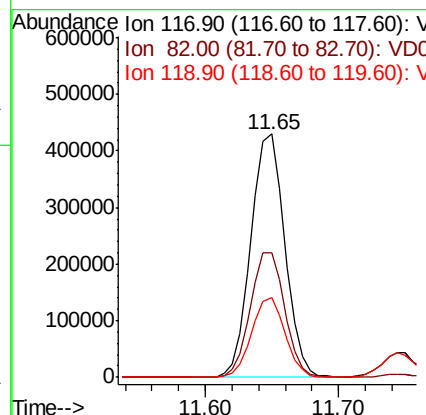
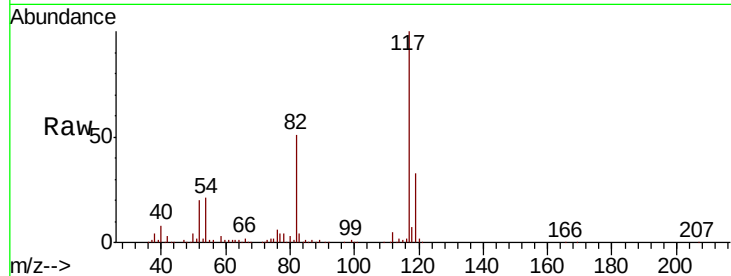
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Instrument :
MSVOA_D
ClientSampleId :
LIED-BF001-01MSD

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.0	42.2	63.4
119	32.7	26.0	39.0

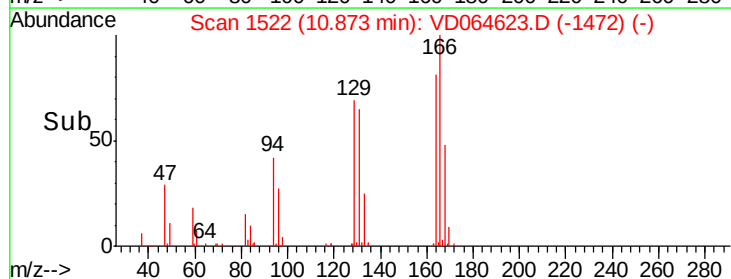
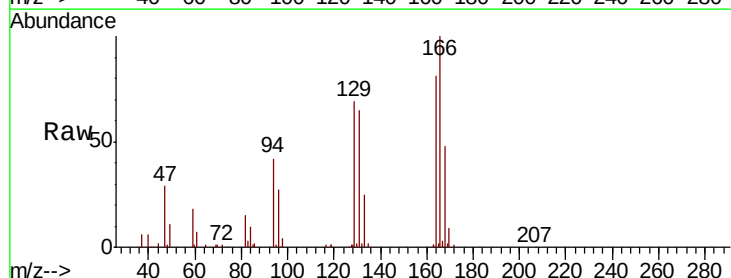
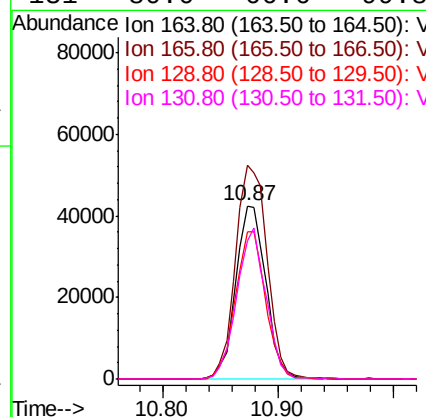
Manual Integrations
APPROVED

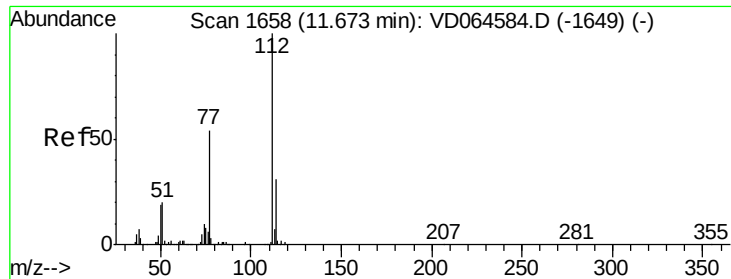
apatel
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#64
Tetrachloroethene
Concen: 13.159 ug/l
RT: 10.87 min Scan# 1522
Delta R.T. -0.01 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.6	101.3	151.9
129	85.1	70.5	105.7
131	80.0	66.6	99.8





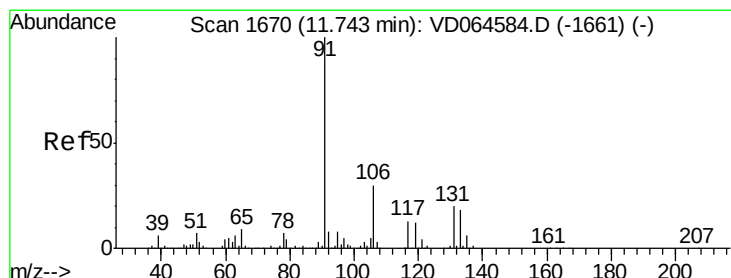
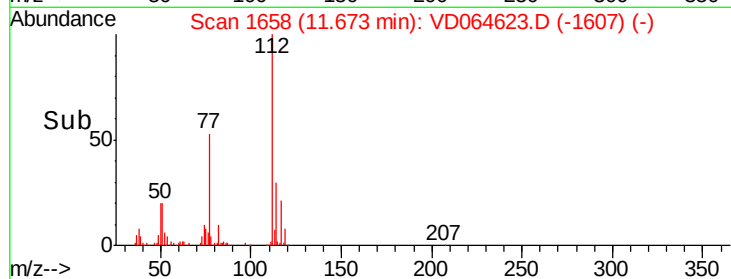
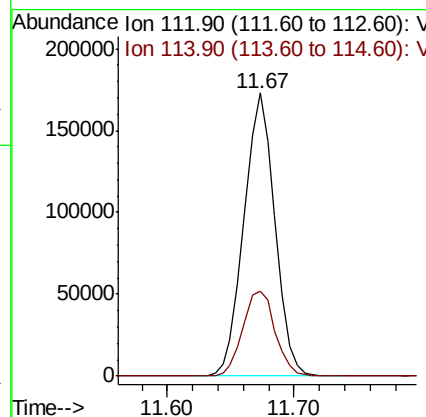
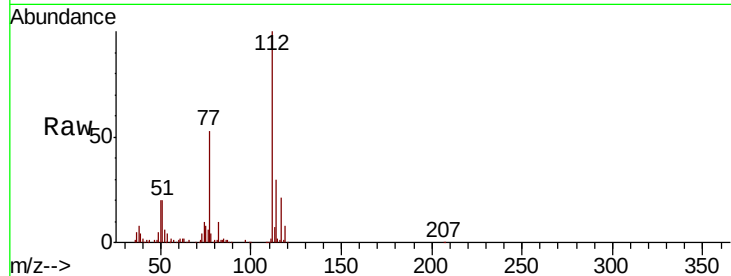
#65
Chlorobenzene
Concen: 18.638 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. 0.00 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Instrument :
MSVOA_D
ClientSampleId :
LIED-BF001-01MSD

Tot Ion	Ratio	Lower	Upper
112	100		
114	30.2	24.8	37.2

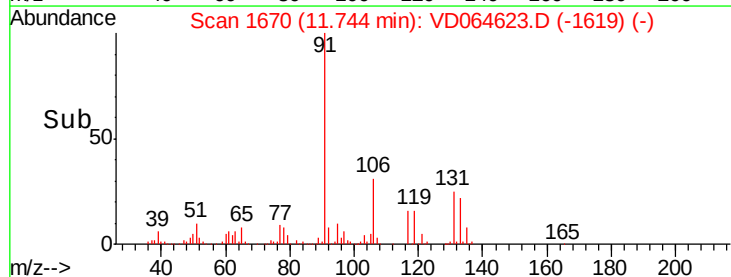
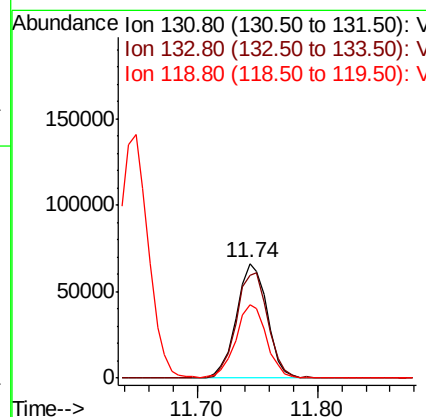
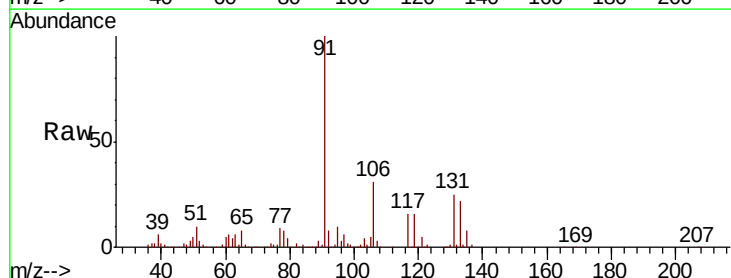
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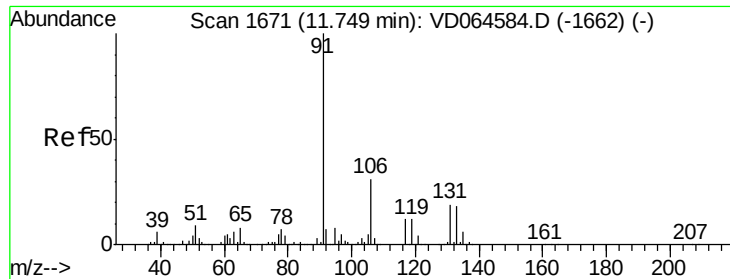
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#66
1,1,1,2-Tetrachloroethane
Concen: 19.924 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. 0.00 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.5	48.3	144.8
119	64.3	32.1	96.3





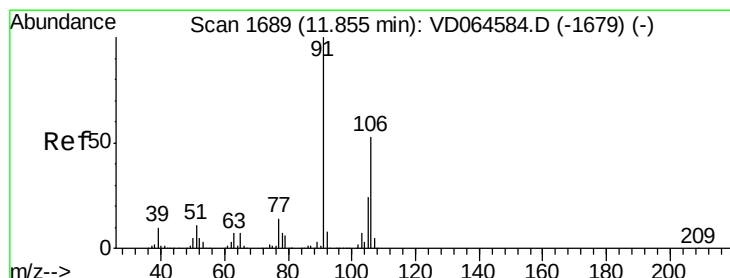
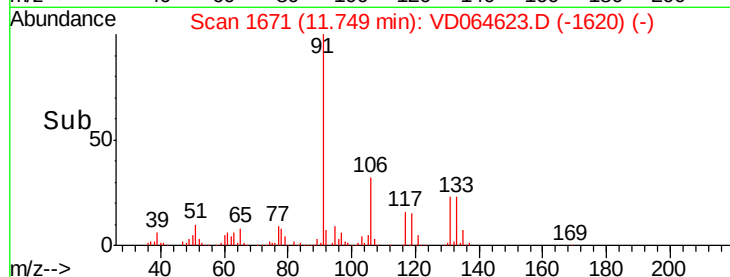
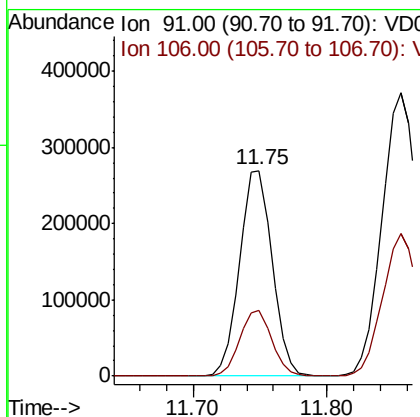
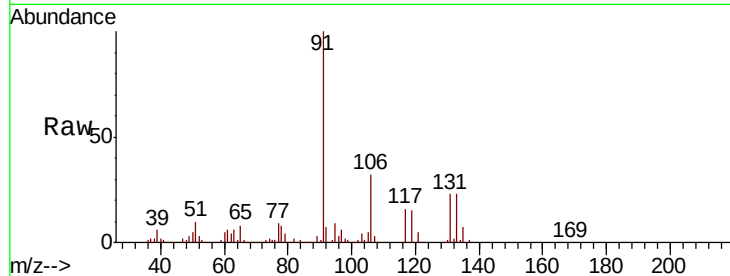
#67
Ethyl Benzene
Concen: 16.003 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Instrument :
MSVOA_D
ClientSampleId :
LIED-BF001-01MSD

Tot Ion: 91 Resp: 456402
Ion Ratio Lower Upper
91 100
106 32.1 24.6 36.8

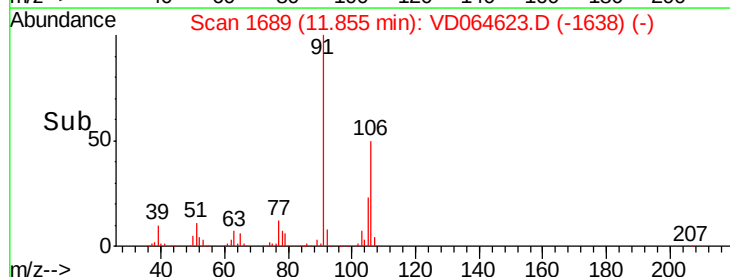
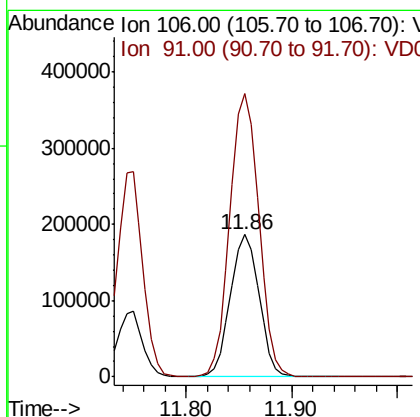
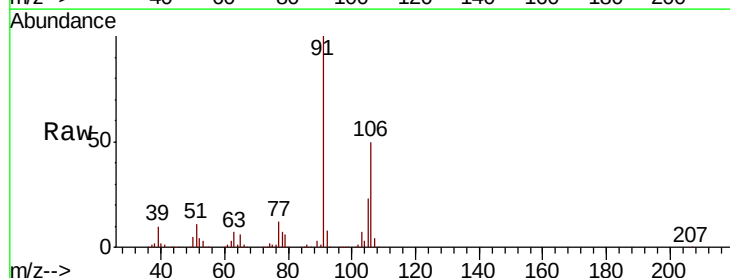
Manual Integrations
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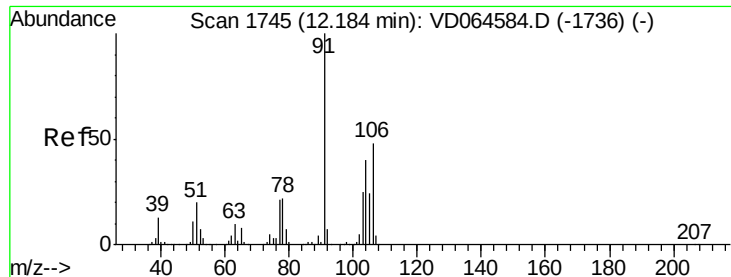
apatel
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#68
m/p-Xylenes
Concen: 31.978 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Tgt Ion: 106 Resp: 352009
Ion Ratio Lower Upper
106 100
91 200.6 156.3 234.5





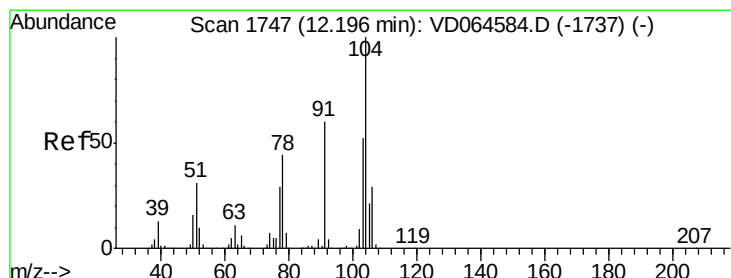
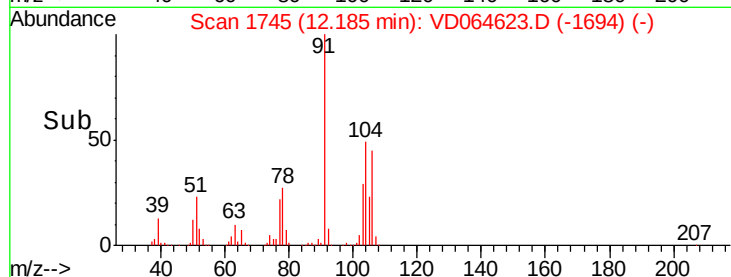
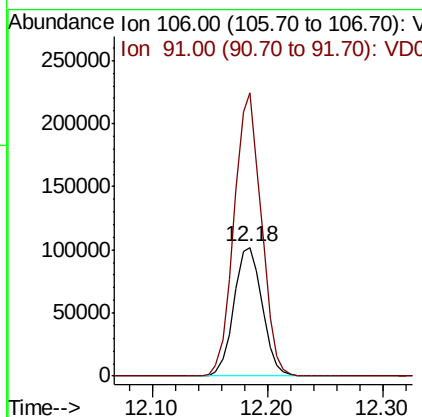
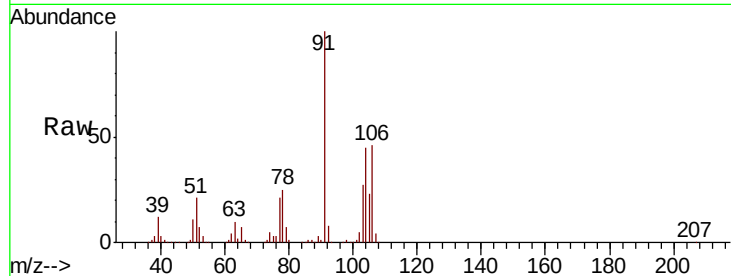
#69
o-Xylene
Concen: 17.480 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Instrument :
MSVOA_D
ClientSampleId :
LIED-BF001-01MSD

Tot Ion	Ratio	Lower	Upper
106	100		
91	211.1	104.8	314.4

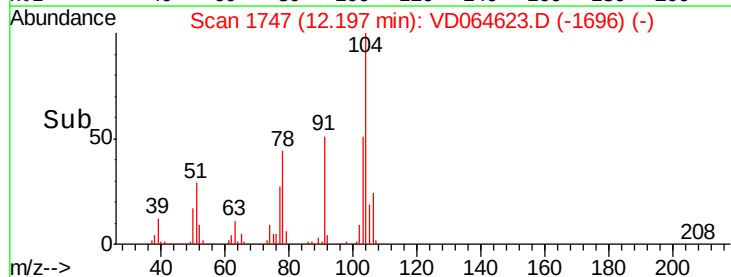
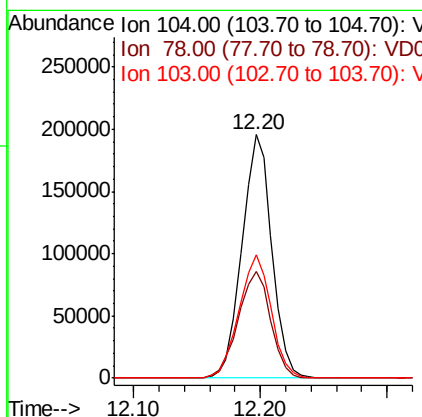
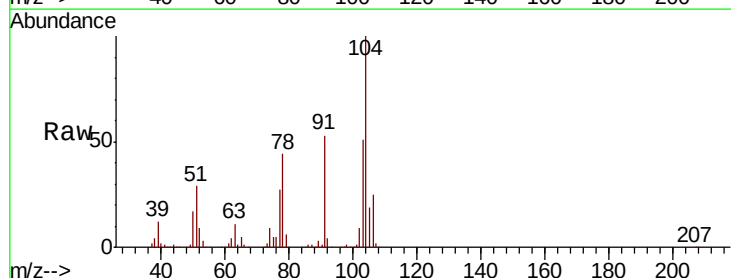
Manual Integrations
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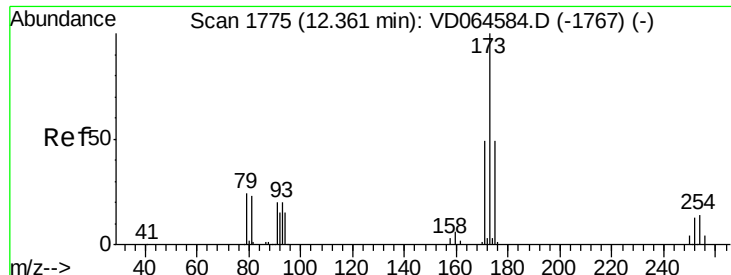
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#70
Styrene
Concen: 18.228 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. 0.00 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Tgt Ion	Ratio	Lower	Upper
104	100		
78	47.9	38.2	57.2
103	54.7	44.6	67.0





#71

Bromoform

Concen: 20.892 ug/l

RT: 12.37 min Scan# 1776

Delta R.T. 0.01 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Instrument :

MSVOA_D

ClientSampleId :

LIED-BF001-01MSD

Tot Ion:173 Resp: 70572

Ion Ratio Lower Upper

173 100

175 48.0 24.6 73.8

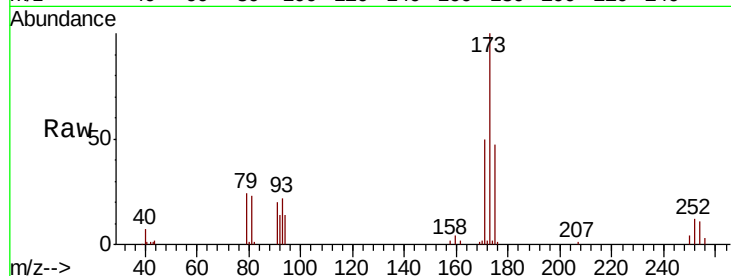
254 0.2 0.1 0.1#

Manual Integrations

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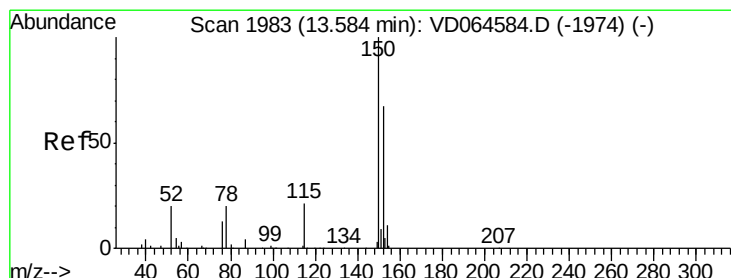
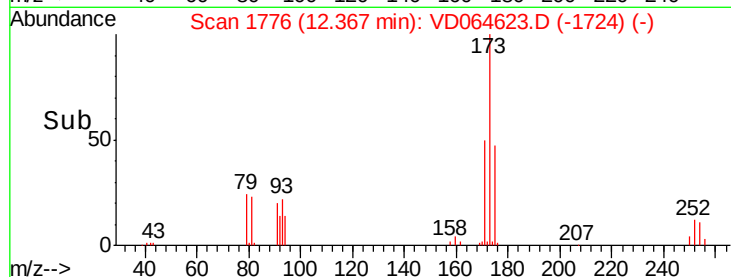
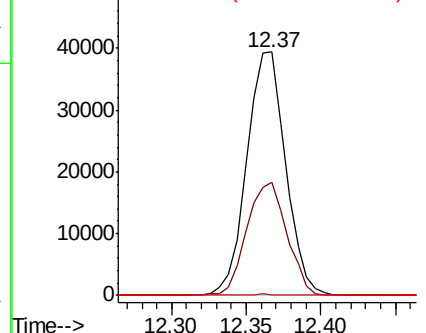
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Abundance Ion 172.70 (172.40 to 173.40): V

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# 1982

Delta R.T. -0.01 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

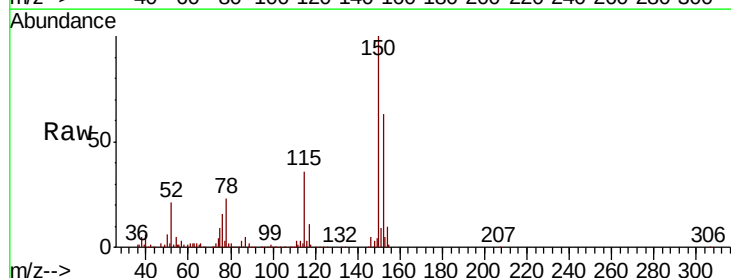
Tgt Ion:152 Resp: 369097

Ion Ratio Lower Upper

152 100

115 55.9 27.8 83.4

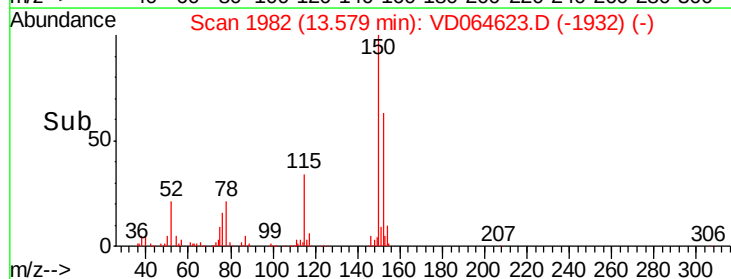
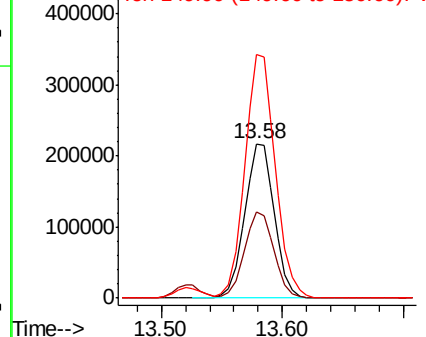
150 162.6 0.0 351.4

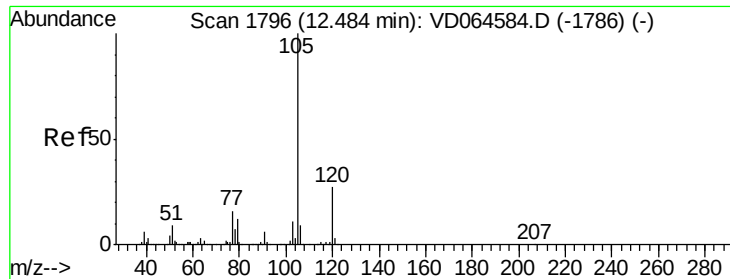


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





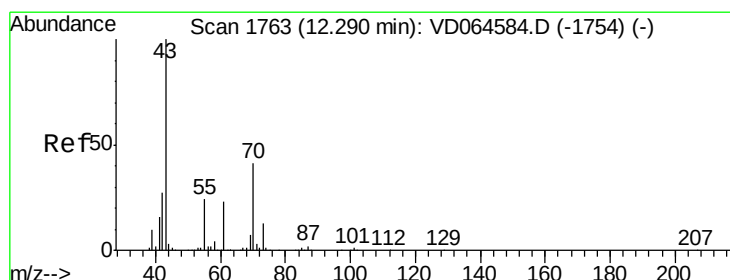
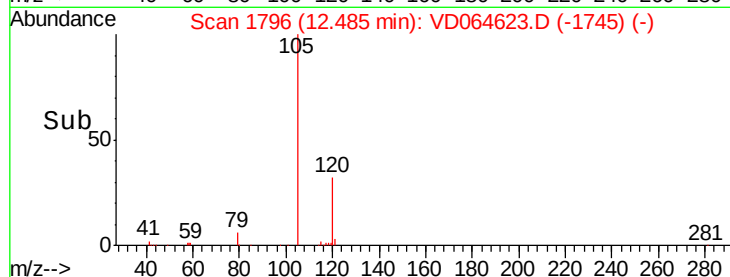
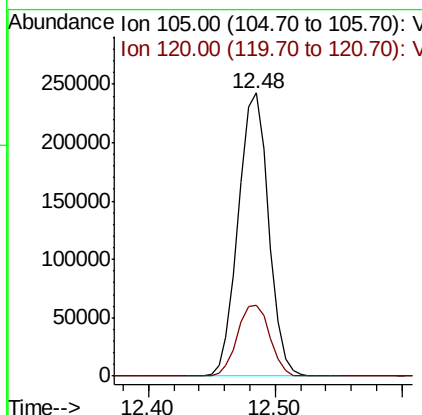
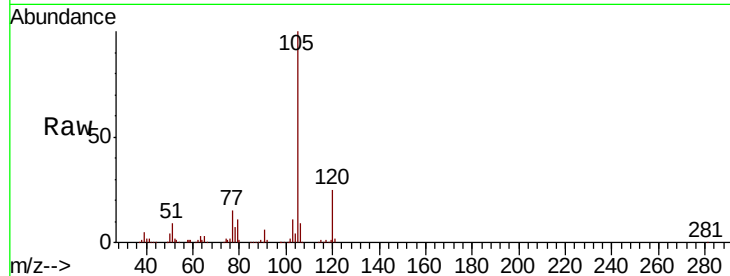
#73
Isopropylbenzene
Concen: 15.291 ug/l
RT: 12.48 min Scan# 1796
Delta R.T. 0.00 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Instrument :
MSVOA_D
ClientSampleId :
LIED-BF001-01MSD

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.5	40.5

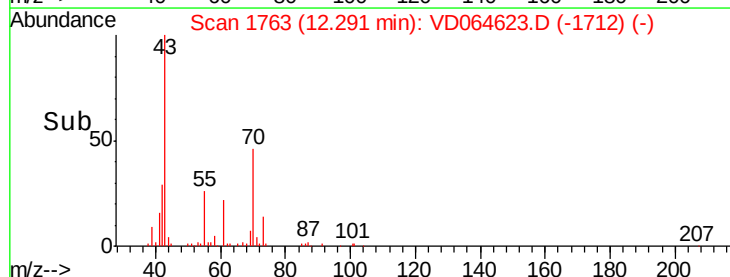
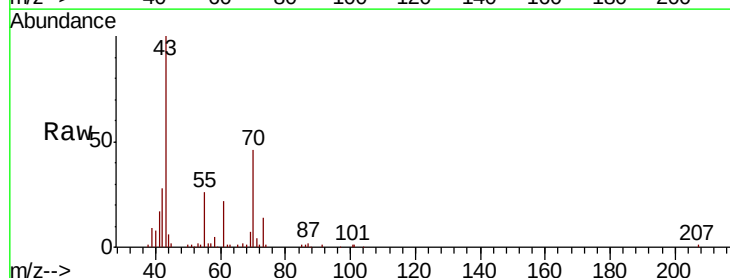
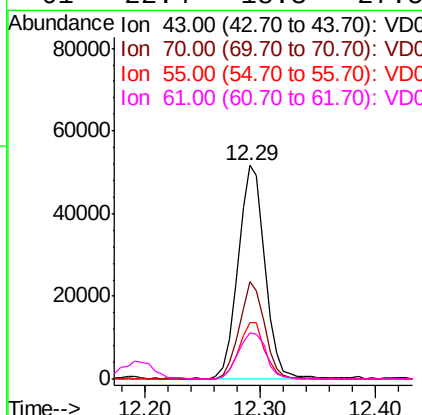
Manual Integrations
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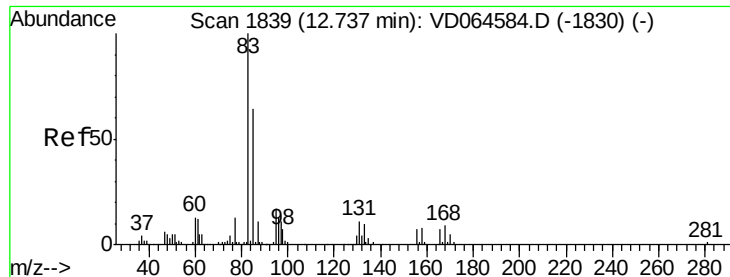
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#74
N-ethyl acetate
Concen: 14.741 ug/l
RT: 12.29 min Scan# 1763
Delta R.T. 0.00 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Tgt Ion	Ratio	Lower	Upper
43	100		
70	43.0	33.4	50.0
55	25.4	19.4	29.0
61	22.4	18.3	27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 21.239 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Instrument :

MSVOA_D

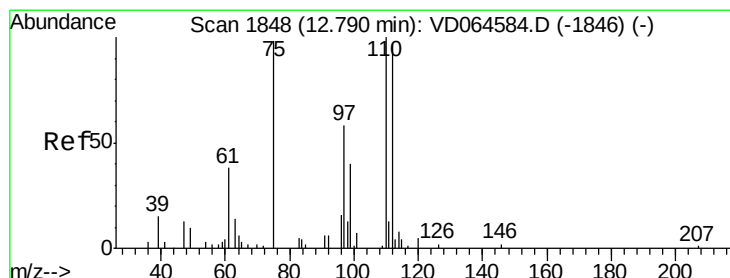
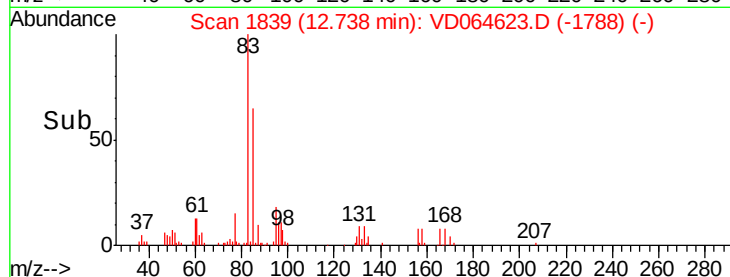
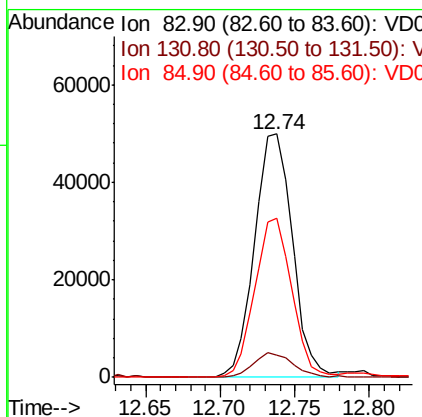
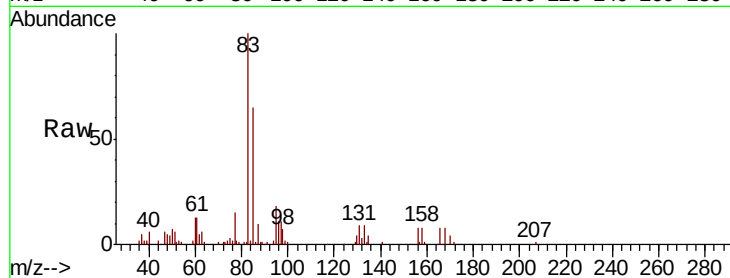
ClientSampleId :

LIED-BF001-01MSD

Tot Ion:	83	Resp:	88002
Ion Ratio	Lower	Upper	
83	100		
131	10.6	5.8	17.4
85	63.3	32.3	96.9

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 21.268 ug/l m

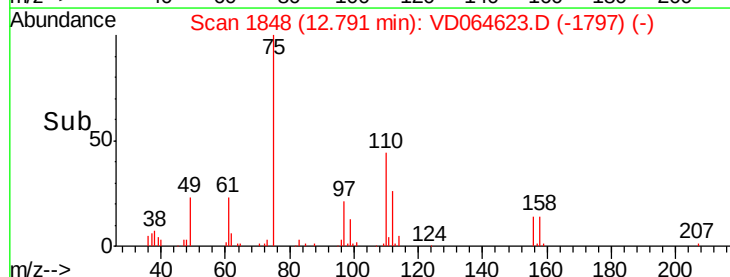
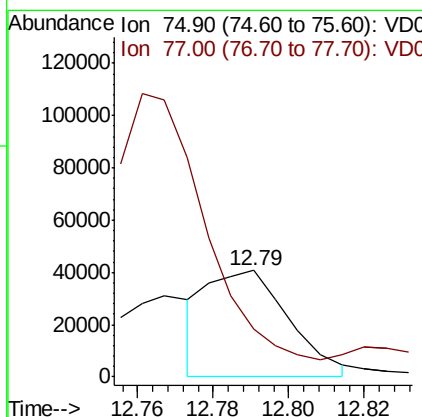
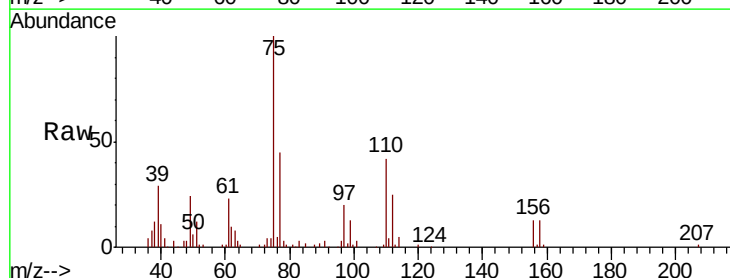
RT: 12.79 min Scan# 1848

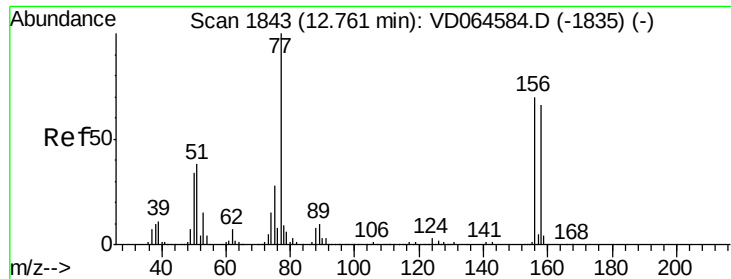
Delta R.T. 0.00 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Tgt Ion:	75	Resp:	61987
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.180 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.01 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Instrument :

MSVOA_D

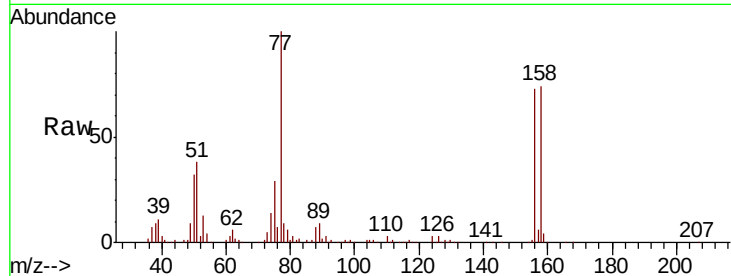
ClientSampleId :

LIED-BF001-01MSD

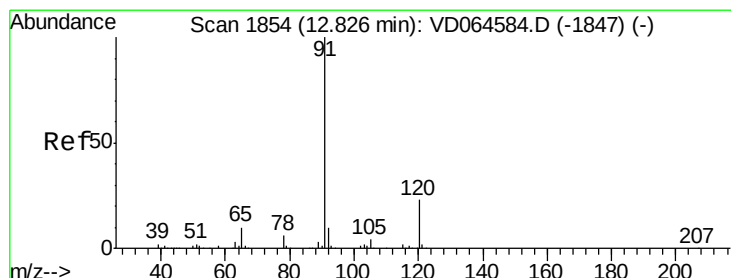
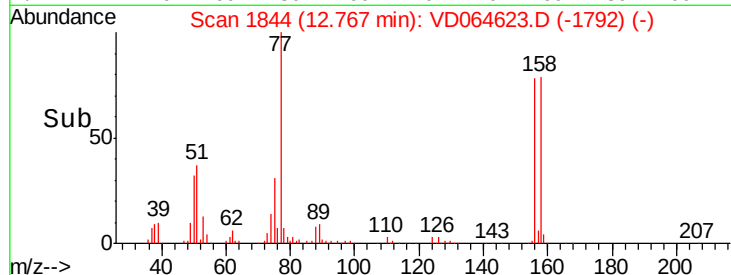
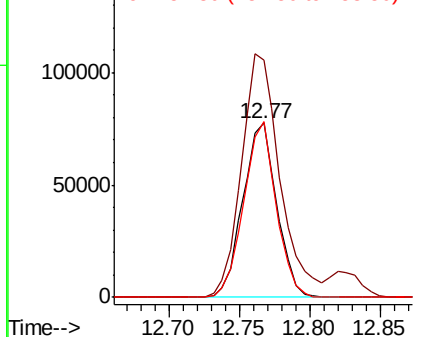
Tot Ion:	156	Resp:	130786
Ion Ratio	Lower	Upper	
156	100		
77	158.6	80.9	242.7
158	96.3	48.0	144.2

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Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VDC
Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 15.096 ug/l

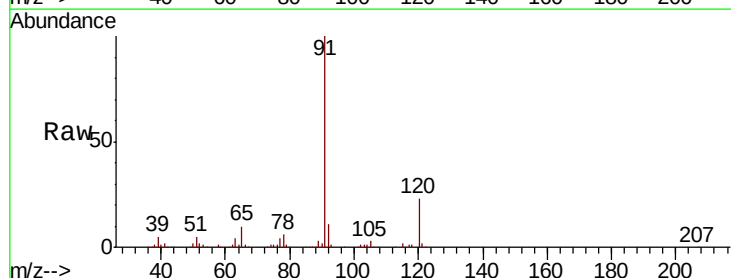
RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

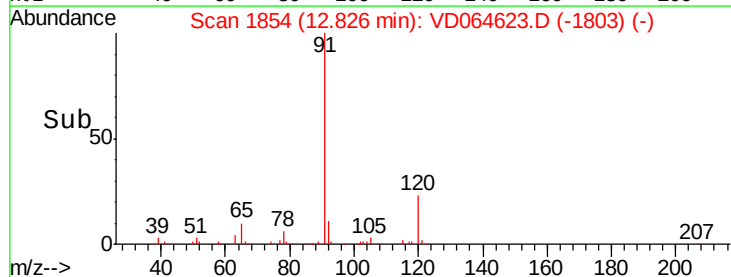
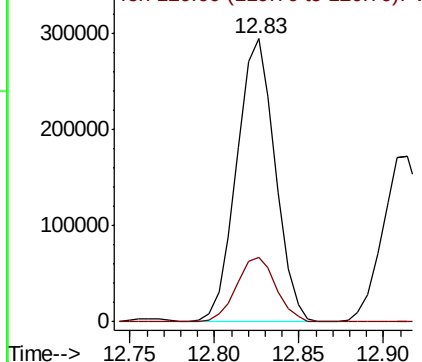
Lab File: VD064623.D

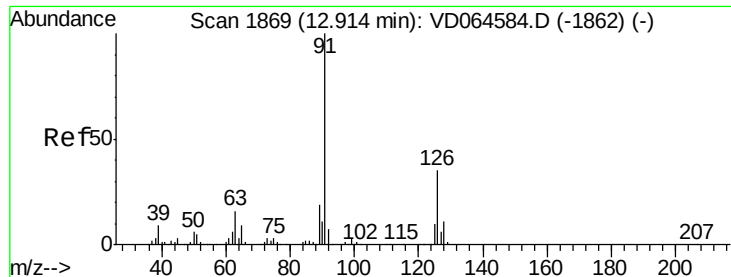
Acq: 27 Dec 2019 03:58

Tgt Ion:	91	Resp:	464518
Ion Ratio	Lower	Upper	
91	100		
120	23.7	11.9	35.9



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 17.485 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. 0.00 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Instrument :

MSVOA_D

ClientSampleId :

LIED-BF001-01MSD

Tot Ion: 91 Resp: 295560

Ion Ratio Lower Upper

91 100

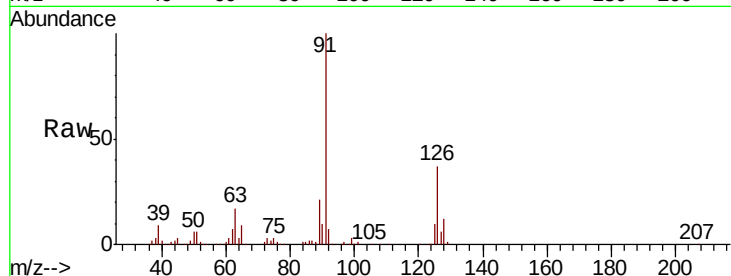
126 36.4 17.8 53.5

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Abundance Ion 91.00 (90.70 to 91.70): VD064584.D (-1862) (-)

Ion 125.90 (125.60 to 126.60): VD064584.D (-1862) (-)

200000

150000

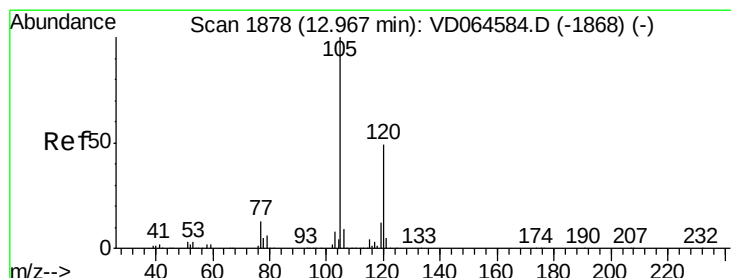
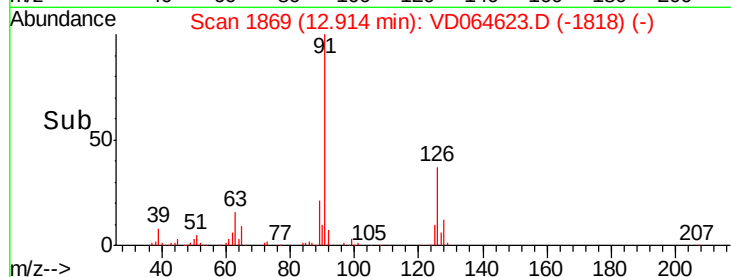
100000

50000

0

12.85 12.90 12.95

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 16.833 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD064623.D

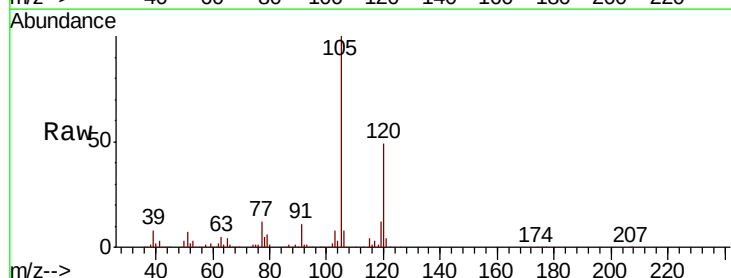
Acq: 27 Dec 2019 03:58

Tgt Ion:105 Resp: 364727

Ion Ratio Lower Upper

105 100

120 49.0 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): VD064584.D (-1868) (-)

Ion 120.00 (119.70 to 120.70): VD064584.D (-1868) (-)

250000

200000

150000

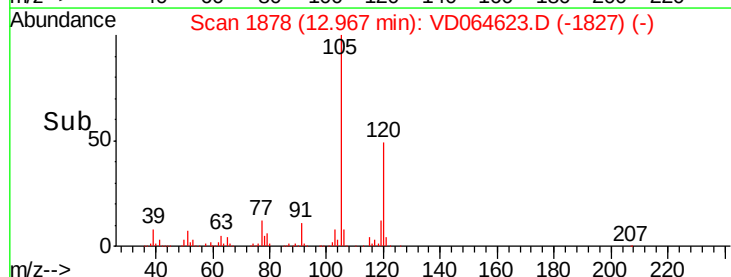
100000

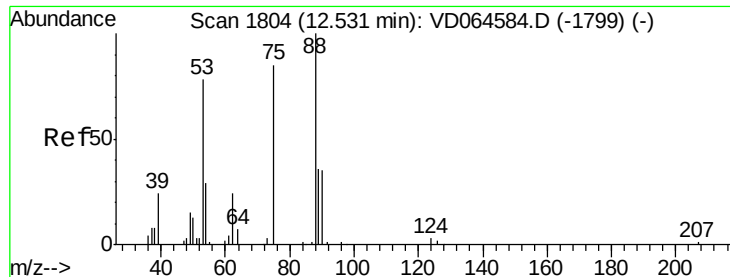
50000

0

12.90 12.97 13.00

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 19.448 ug/l

RT: 12.53 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Instrument :

MSVOA_D

ClientSampleId :

LIED-BF001-01MSD

Tot Ion: 75 Resp: 27102

Ion Ratio Lower Upper

75 100

53 95.6 78.8 118.2

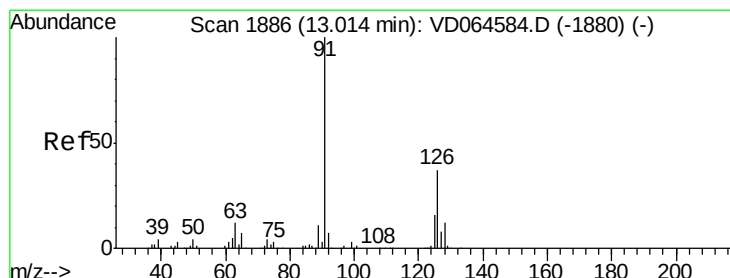
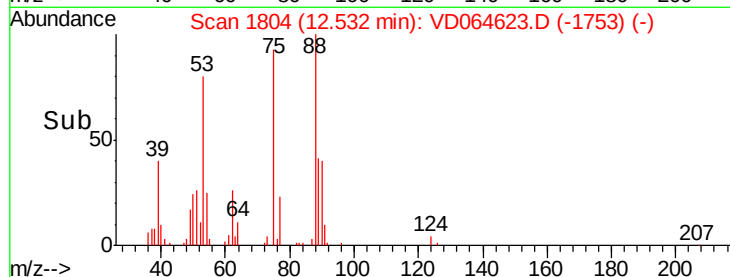
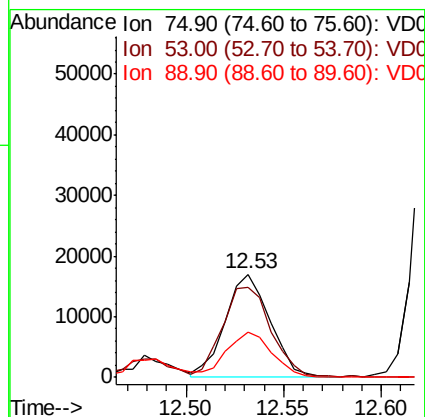
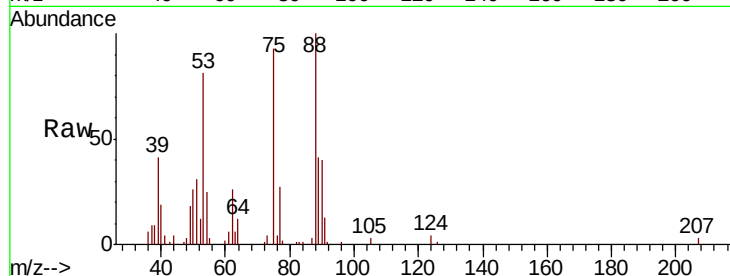
89 43.8 38.3 57.5

Manual Integrations

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#82

4-Chlorotoluene

Concen: 17.781 ug/l

RT: 13.01 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VD064623.D

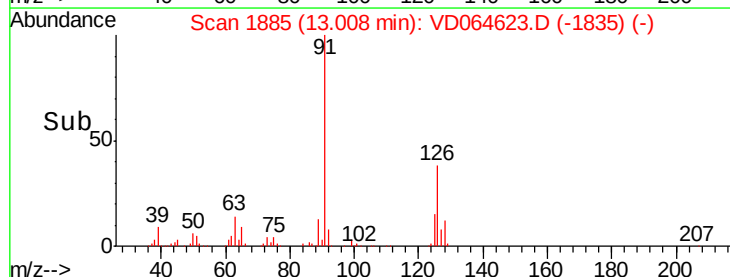
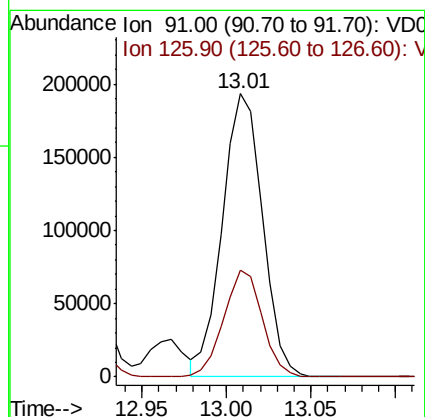
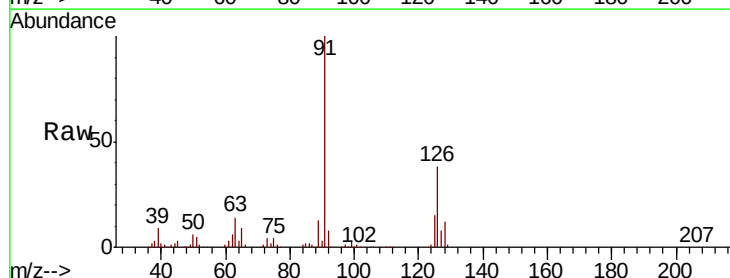
Acq: 27 Dec 2019 03:58

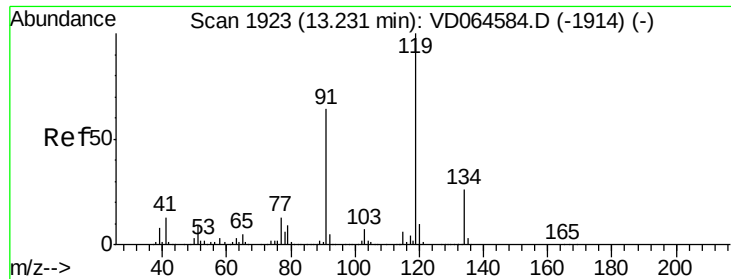
Tgt Ion: 91 Resp: 319864

Ion Ratio Lower Upper

91 100

126 36.3 17.8 53.5





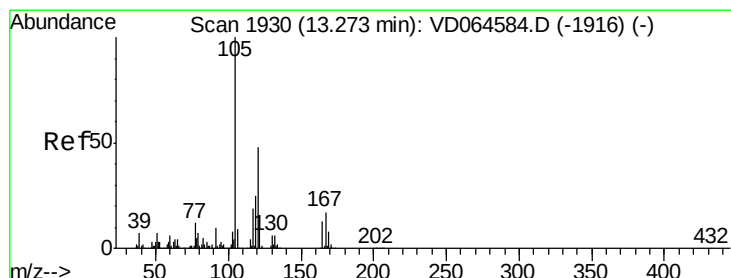
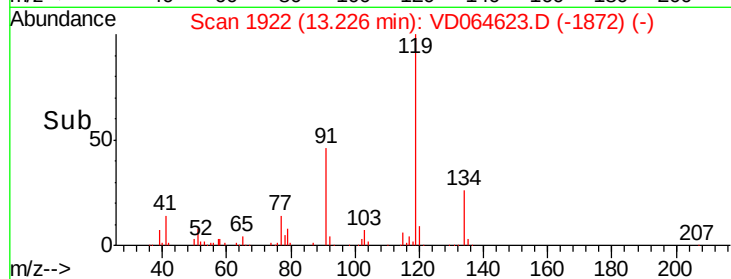
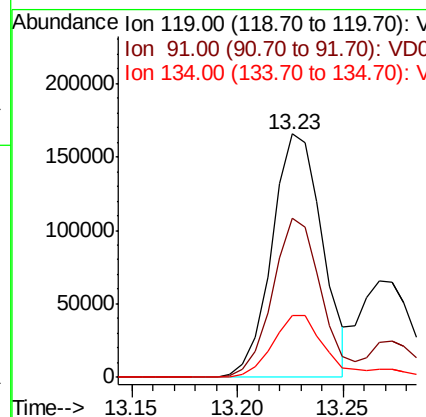
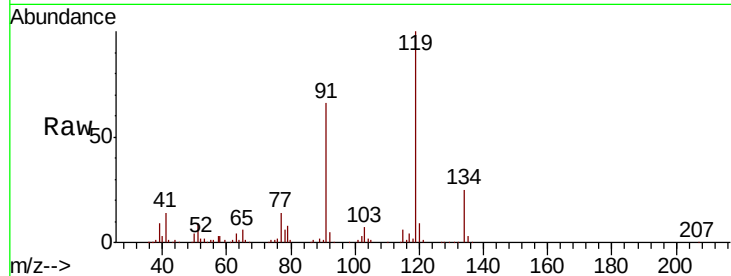
#83
 tert-Butylbenzene
 Concen: 14.619 ug/l
 RT: 13.23 min Scan# 1922
 Delta R.T. -0.01 min
 Lab File: VD064623.D
 Acq: 27 Dec 2019 03:58

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-BF001-01MSD

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.3	30.8	92.4
134	28.4	12.8	38.3

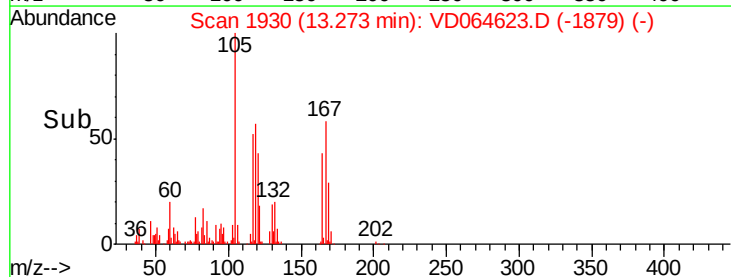
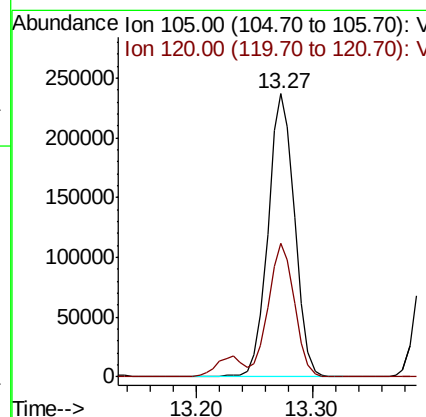
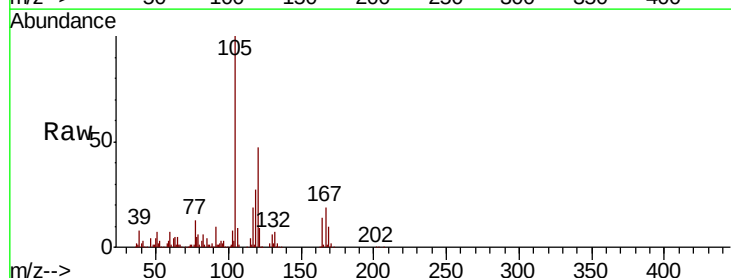
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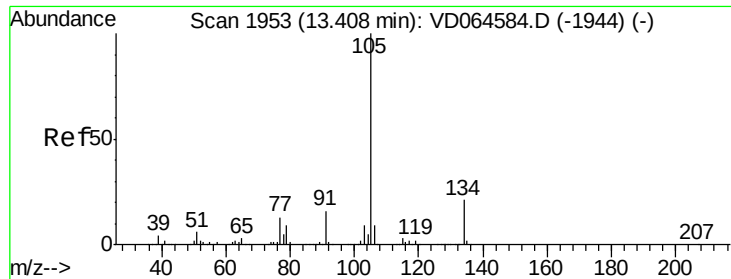
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#84
 1,2,4-Trimethylbenzene
 Concen: 17.599 ug/l
 RT: 13.27 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VD064623.D
 Acq: 27 Dec 2019 03:58

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.6	23.8	71.2





#85

sec-Butylbenzene

Concen: 13.874 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Instrument :

MSVOA_D

ClientSampleId :

LIED-BF001-01MSD

Tot Ion:105 Resp: 357817

Ion Ratio Lower Upper

105 100

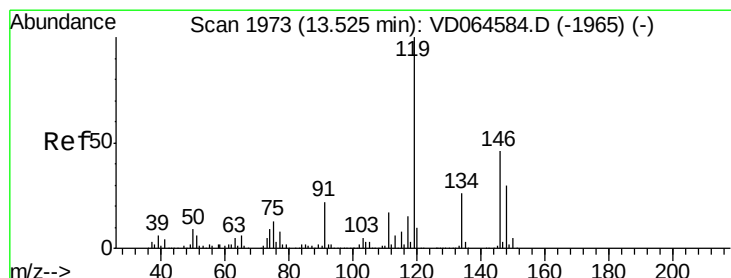
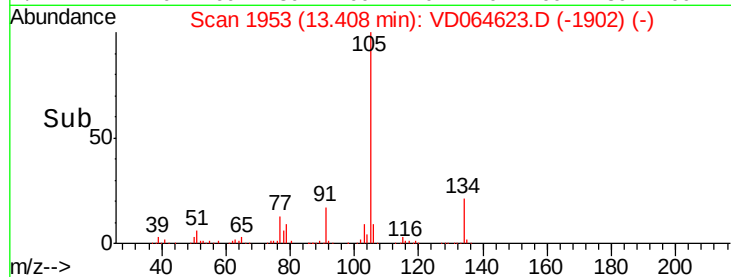
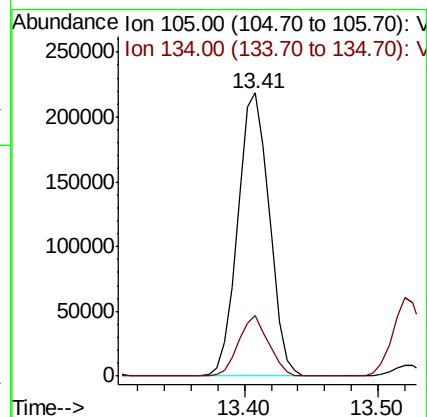
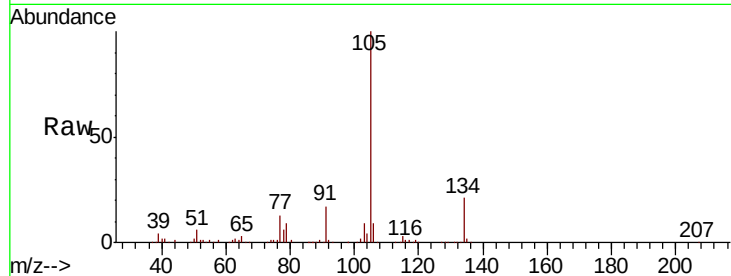
134 20.4 10.6 31.8

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#86

p-Isopropyltoluene

Concen: 14.548 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. -0.01 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

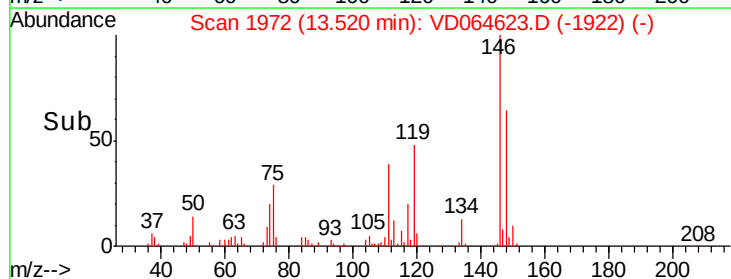
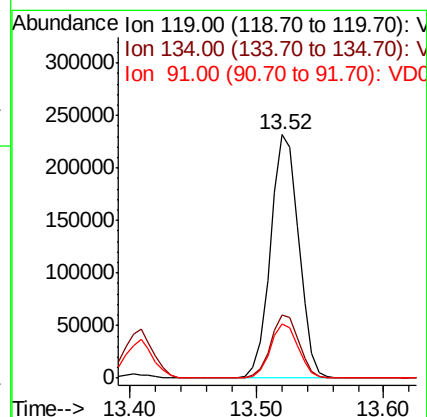
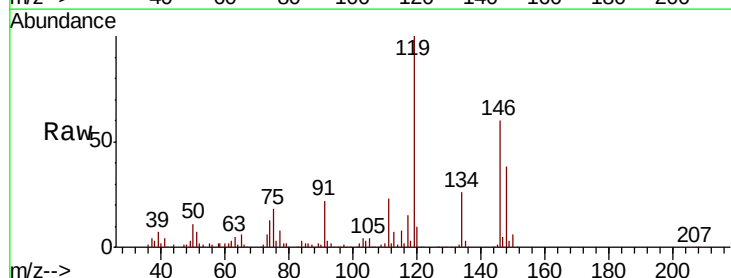
Tgt Ion:119 Resp: 358762

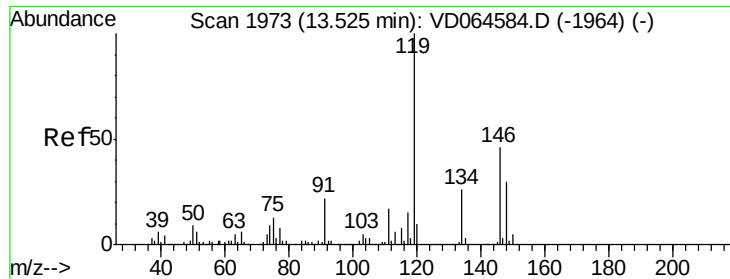
Ion Ratio Lower Upper

119 100

134 26.1 13.4 40.1

91 22.1 11.2 33.6





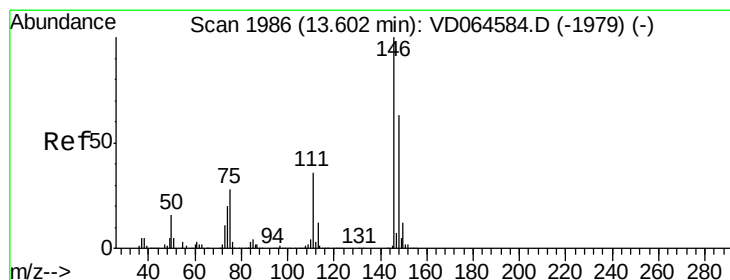
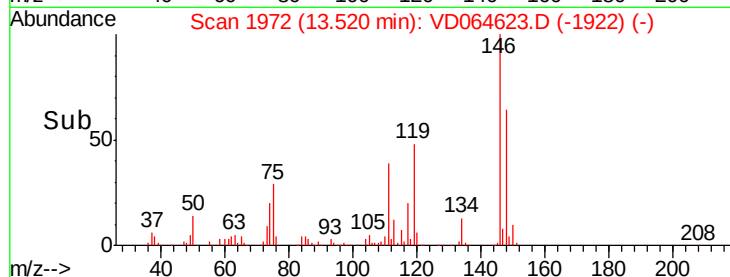
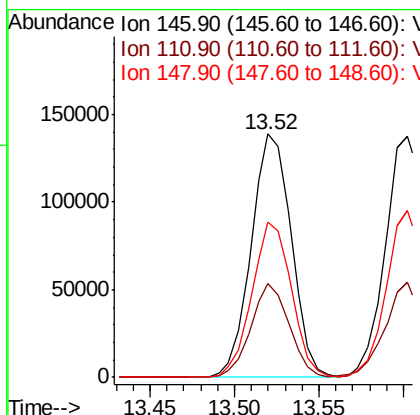
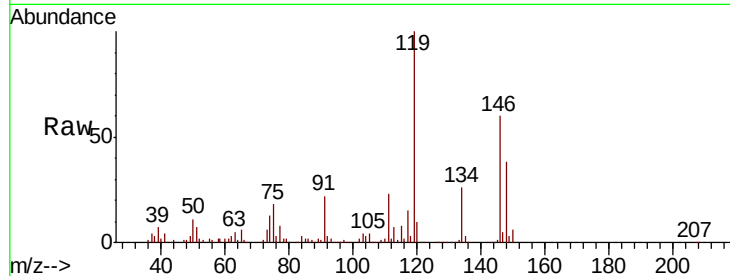
#87
 1,3-Dichlorobenzene
 Concen: 18.579 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. -0.01 min
 Lab File: VD064623.D
 Acq: 27 Dec 2019 03:58

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-BF001-01MSD

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.7	18.8	56.4
148	63.0	32.5	97.5

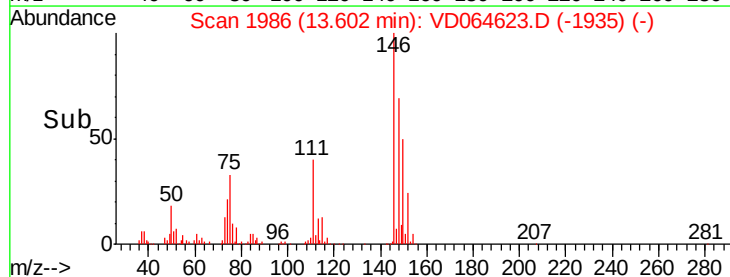
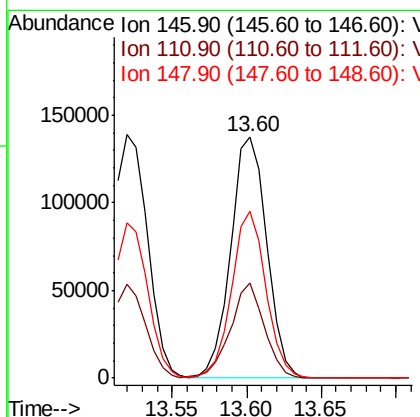
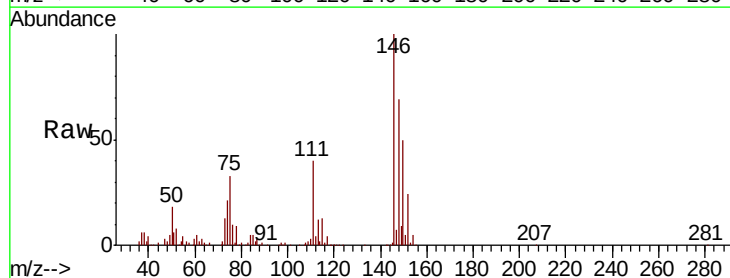
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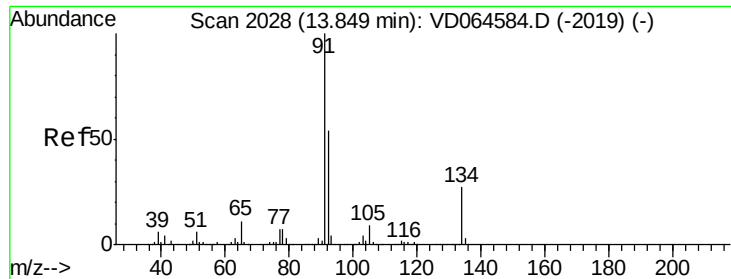
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#88
 1,4-Dichlorobenzene
 Concen: 19.116 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. 0.00 min
 Lab File: VD064623.D
 Acq: 27 Dec 2019 03:58

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.4	18.1	54.1
148	65.9	32.3	96.9





#89

n-Butylbenzene

Concen: 13.347 ug/l

RT: 13.85 min Scan# 2028

Delta R.T. 0.00 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Instrument :

MSVOA_D

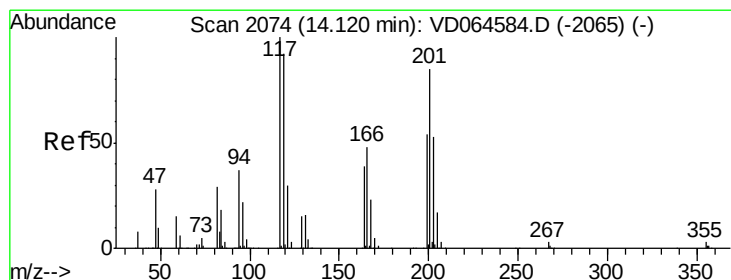
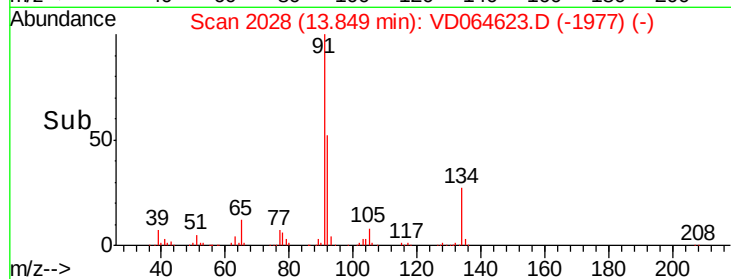
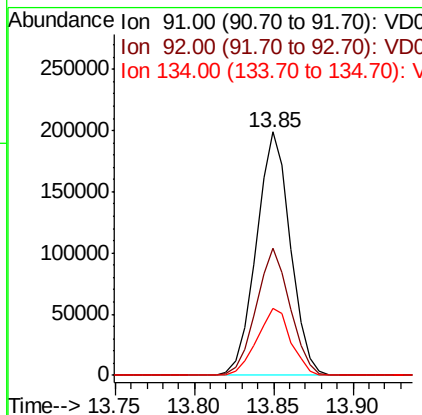
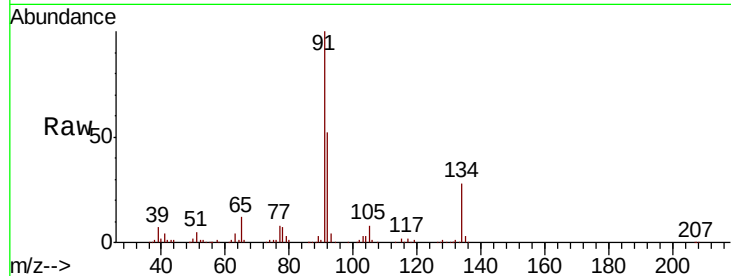
ClientSampleId :

LIED-BF001-01MSD

Tot Ion:	91	Resp:	296406
Ion	Ratio	Lower	Upper
91	100		
92	52.0	26.8	80.4
134	27.7	14.0	41.9

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#90

Hexachloroethane

Concen: 15.469 ug/l

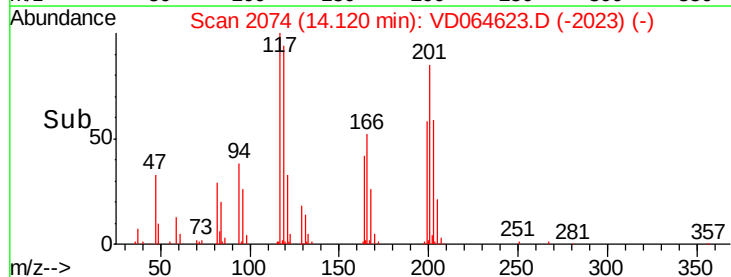
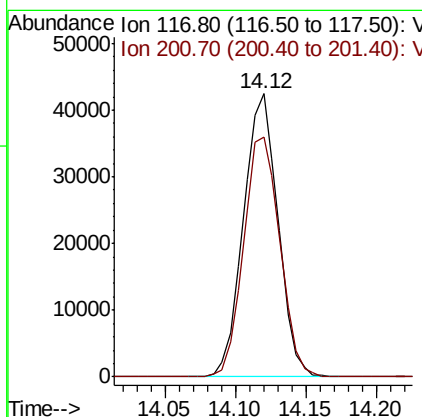
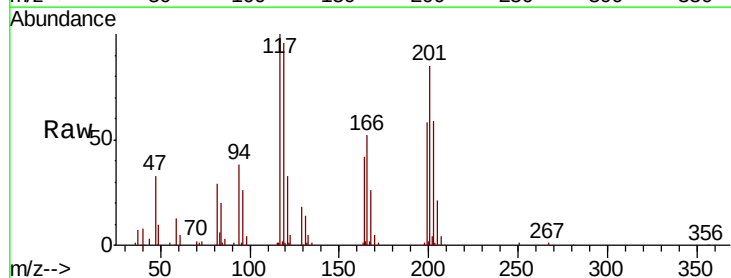
RT: 14.12 min Scan# 2074

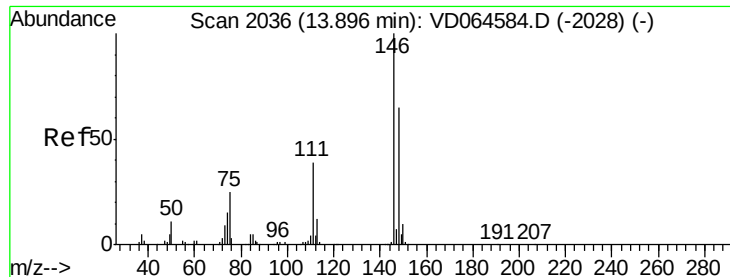
Delta R.T. 0.00 min

Lab File: VD064623.D

Acq: 27 Dec 2019 03:58

Tgt Ion:	117	Resp:	72869
Ion	Ratio	Lower	Upper
117	100		
201	88.6	44.0	131.8





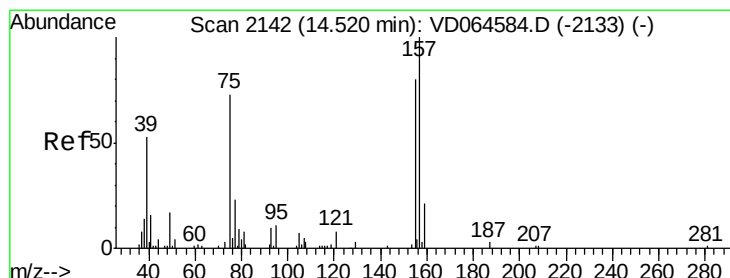
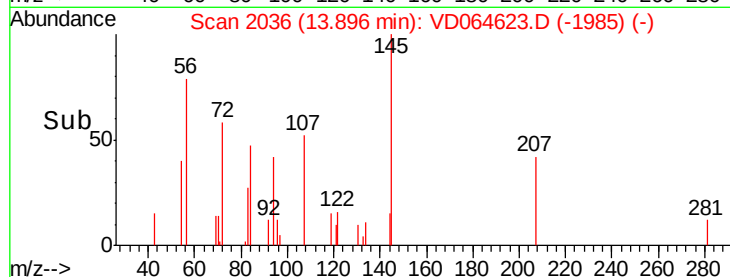
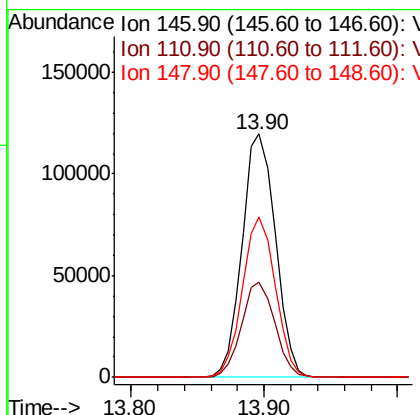
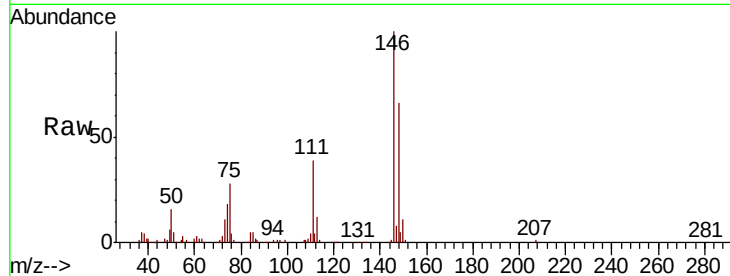
#91
 1,2-Dichlorobenzene
 Concen: 19.624 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. 0.00 min
 Lab File: VD064623.D
 Acq: 27 Dec 2019 03:58

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-BF001-01MSD

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.3	57.9
148	65.0	31.9	95.5

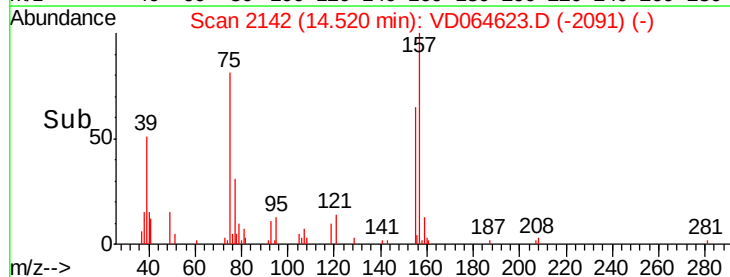
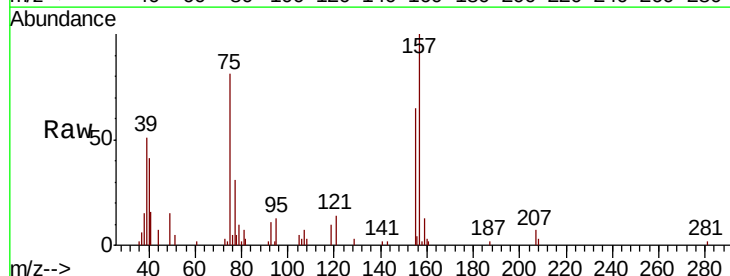
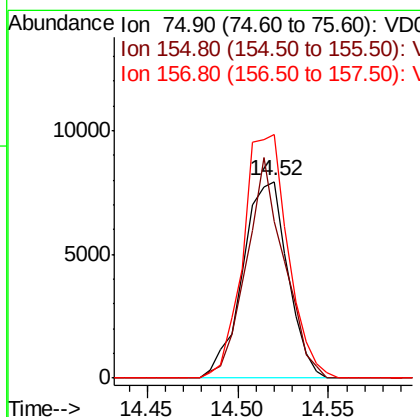
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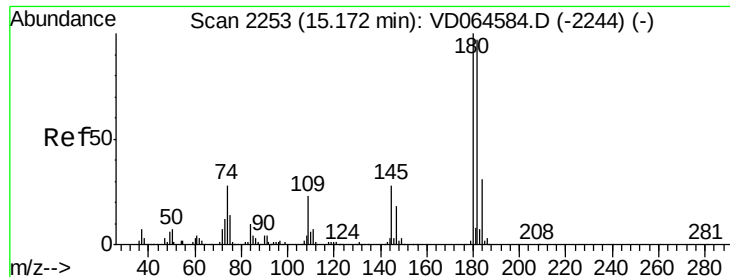
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.506 ug/l
 RT: 14.52 min Scan# 2142
 Delta R.T. 0.00 min
 Lab File: VD064623.D
 Acq: 27 Dec 2019 03:58

Tgt Ion	Ratio	Lower	Upper
75	100		
155	94.0	48.0	144.0
157	123.5	64.1	192.3





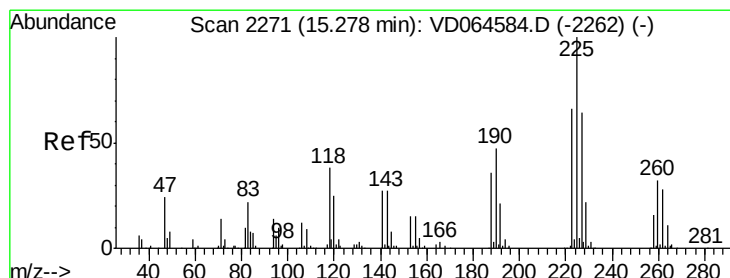
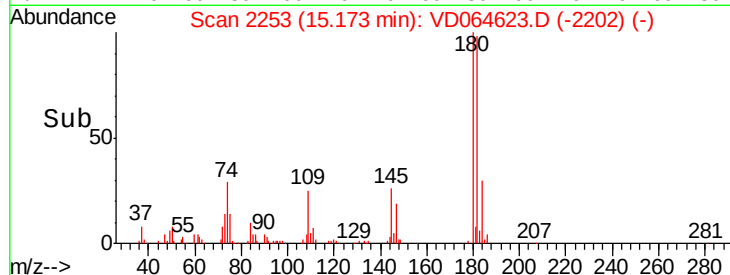
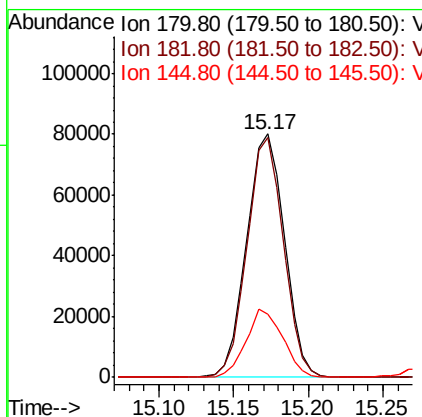
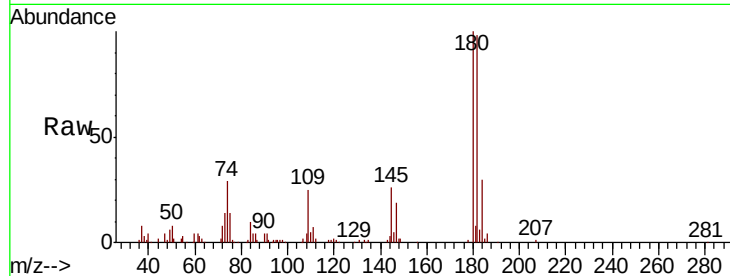
#93
 1,2,4-Trichlorobenzene
 Concen: 18.122 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VD064623.D
 Acq: 27 Dec 2019 03:58

Instrument :
 MSVOA_D
 ClientSampleId :
 LIED-BF001-01MSD

Tot Ion	Ratio	Resp	Lower	Upper
180	100	140580		
182	94.5	48.0	144.2	
145	27.2	13.8	41.4	

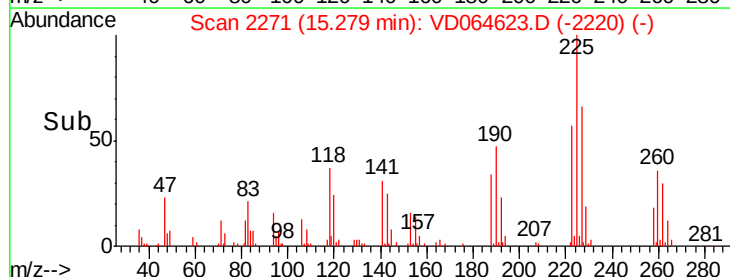
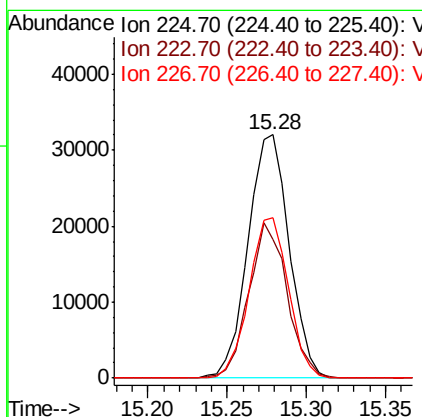
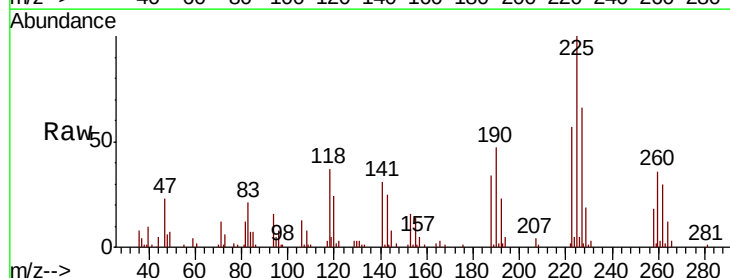
Manual Integrations
 APPROVED

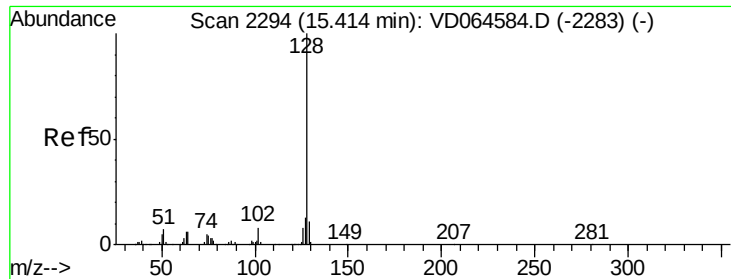
apatel
 12/27/2019 2:07:29 PM



#94
 Hexachlorobutadiene
 Concen: 11.856 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. 0.00 min
 Lab File: VD064623.D
 Acq: 27 Dec 2019 03:58

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	57872		
223	59.6	31.1	93.2	
227	62.9	30.9	92.7	





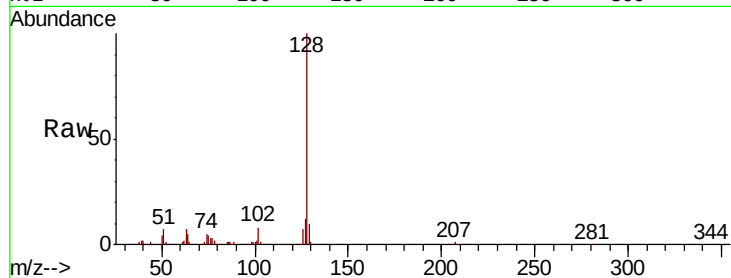
#95
Naphthalene
Concen: 19.933 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. -0.01 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Instrument :
MSVOA_D
ClientSampleId :
LIED-BF001-01MSD

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.3	15.5
129	11.0	8.5	12.7

Manual Integrations
APPROVED

apatel
12/27/2019 2:07:29 PM

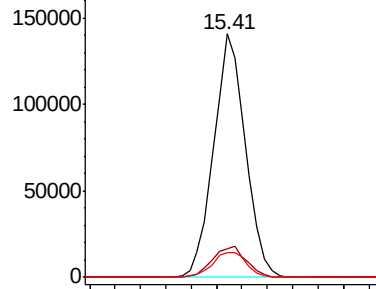


Abundance

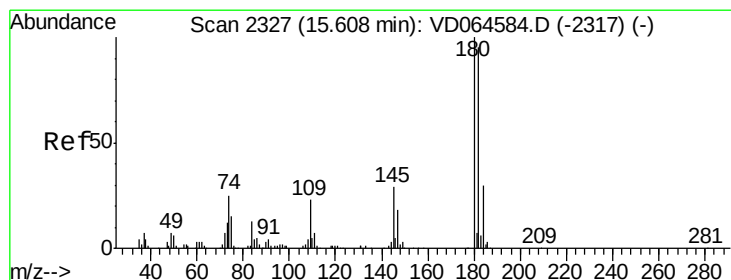
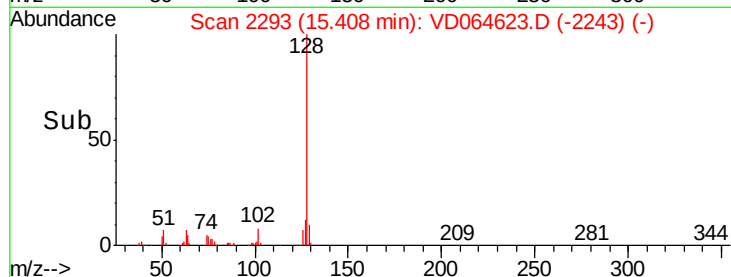
Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

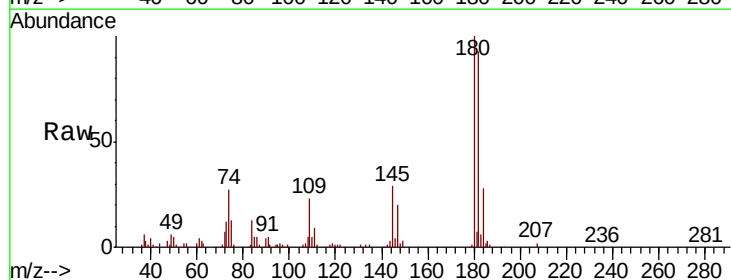


Time--> 15.30 15.40 15.50



#96
1,2,3-Trichlorobenzene
Concen: 19.119 ug/l
RT: 15.60 min Scan# 2326
Delta R.T. -0.01 min
Lab File: VD064623.D
Acq: 27 Dec 2019 03:58

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.1	47.9	143.7
145	29.6	14.9	44.7

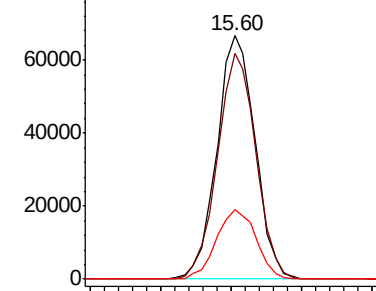


Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V



Time--> 15.50 15.55 15.60 15.65

